# EXHIBIT B43

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## IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW JERSEY

IN RE: JOHNSON & JOHNSON TALCUM POWDER PRODUCTS
MARKETING, SALES PRACTICES,
AND PRODUCTS LIABILITY
LITIGATION

Case No. 16-2738 (FLW) (LHG)

THIS DOCUMENT RELATES TO

ALL CASES

MDL Docket No. 2738

Wednesday, January 30, 2019

- - - - -

The video deposition of ROBERT COOK, Ph.D., taken pursuant to notice, was held at the Hilton Garden Inn, 2555 Hilton Garden Drive, Auburn, Alabama, commencing at approximately 8:56 a.m., on the above date, before Lois Anne Robinson, Registered Diplomate Reporter, Certified Realtime Reporter, and Notary Public for the State of Alabama.

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13	Florham Park, New Jersey 07932-1047 BY: JACK N. FROST, JR., ESQUIRE	13	3 File folder of notes brought to depo, individually 12
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6 7 8	34-5 Bates Documents JNJMX68_000004296 - LUZ015663       507         34-6 Core Logs and Maps       507         34-7 Depositions of Pat Downey - John Hopkins Part 1 507	5 6 7 8	Services.  Today's date is January 30th, 2019, and the time is 8:56 a.m.  This video deposition is being held in
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3 (Pages 6 to 9)

	Page 10		Page 12
1	MR. FROST:	1	as Exhibits 1 and 2. And do you recognize these
2	Jack Frost, Drinker Biddle & Reath, on	2	are the reports that you drafted in this matter?
3	behalf of Johnson & Johnson.	3	A The cover pages are correct, and I
4	MS. McBETH:	4	assume that the contents are.
5	Catherine McBeth, Drinker Biddle &	5	Q Okay. And other than these two
6	Reath, on behalf of Johnson & Johnson.	6	reports, do you have any other reports, written
7	MR. FERGUSON:	7	research, anything else that you've created for
8	Ken Ferguson, Gordon & Rees, for	8	this matter that isn't reflected by those?
9	Imerys.	9	A I have a few handwritten notes that I
10	MR. CARY:	10	brought in response to your request.
11	Andrew Cary, Gordon & Rees, for Imerys.	11	Q Okay. Could I see those?
12	VIDEOGRAPHER:	12	A (Witness complies.)
13	The court reporter is Lois Robinson,	13	Q We'll mark them now, and I'll take a
14	who will now swear in the witness.	14	look at them during the break.
15	THE COURT REPORTER:	15	A Yeah.
16	We just had someone arrive.	16	MR. FROST:
17	Do you want to state your appearances?	17	Could you mark this as Exhibit 3,
18	MR. BILLINGS-KANG:	18	please.
19 20	Sure. This is James Billings Vong on behalf	19	(DEPOSITION EXHIBIT NUMBER 3
	This is James Billings-Kang on behalf	20	WAS MARKED FOR IDENTIFICATION.)
21 22	of Personal Care Products Council.	21	MR. FROST:
23	ROBERT B. COOK, Ph.D.,	22	Q And then I also note counsel brought a
23 24	the witness, after having first been	23	collection of invoices today. I'll mark those as
24	duly sworn to tell the truth, the whole truth,	24	Exhibit 4.
	Page 11		Page 13
1		1	
1 2	Page 11 and nothing but the truth, was examined and testified as follows:	1 2	Page 13 (DEPOSITION EXHIBIT NUMBER 4 WAS MARKED FOR IDENTIFICATION.)
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4 (Pages 10 to 13)

	Page 14		Page 16
1	know, we'll figure out during a break what the	1	sitting here today, you don't intend to offer any
2	best way to to do that is. So we'll for	2	additional opinions that aren't otherwise set
3	now we can refer to the stuff that's on the	3	forth in these reports?
4	table.	4	A That's correct.
5	Q It looks like you brought a collection	5	Q And do you believe the reports to be
6	of documents, literature, and, as you said, the	6	accurate and complete?
7	picture of your library.	7	A When you say "the reports," you mean
8	A Yes. And a publication on amphiboles,	8	these two reports?
9	if there were any questions about amphiboles.	9	Q Yes.
10	Q Okay.	10	A Yes.
11	A Just a good summary document.	11	Q Yes. These, Exhibit 1 and Exhibit 2.
12	Q All right. And is that, the book on	12	A Yes.
13	amphiboles, is that in the materials relied upon?	13	Q And is it fair to summarize the
14	A Well, I relied on it. I don't remember	14	opinions you're rendering in this case all relate
15	whether we listed it or not. It's	15	to geology, mineralogy, and sort of mining
16	MS. O'DELL:	16	practices?
17	I believe it to be.	17	A It's it goes beyond that in that I
18	MR. FROST:	18	am offering opinions related to sampling and
19	It is reflected?	19	analytical techniques.
20	MS. O'DELL:	20	Q Okay. I'd loop that under the mining.
21	I believe it to be reflected. But we	21	A Yeah.
22	can go through	22	Q Other than the geology, mineralogy,
23	MR. FROST:	23	mining practices, and the sampling and
24	I was going to say, we can always	24	compositing techniques, is there anything else
	Daga 1E		
	Page 15		Page 17
1	check	1	you intend to offer opinions on here today?
2	check MS. O'DELL:	2	you intend to offer opinions on here today?  A No.
2	check MS. O'DELL: Yeah.	2 3	you intend to offer opinions on here today?  A No.  Q And, in fact, you don't intend to offer
2 3 4	check MS. O'DELL: Yeah. MR. FROST:	2 3 4	you intend to offer opinions on here today?  A No.  Q And, in fact, you don't intend to offer any opinions on whether or not talc or talcum
2 3 4 5	check MS. O'DELL: Yeah. MR. FROST: that during a break as well.	2 3 4 5	you intend to offer opinions on here today?  A No.  Q And, in fact, you don't intend to offer any opinions on whether or not talc or talcum powder can cause ovarian cancer; correct?
2 3 4 5 6	check MS. O'DELL: Yeah. MR. FROST: that during a break as well. Q All right. Excellent.	2 3 4 5 6	you intend to offer opinions on here today?  A No.  Q And, in fact, you don't intend to offer any opinions on whether or not talc or talcum powder can cause ovarian cancer; correct?  A No. No.
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5 (Pages 14 to 17)

	Page 18		Page 20
1	as an amended report is that correct?	1	MS. O'DELL:
2	that the Exhibit 2, the second of the two	2	Excuse me. And just to any questions
3	reports?	3	that would would require you to disclose
4	A Yes.	4	things that we've discussed, those would be
5	Q Okay. And why did you issue an amended	5	things that are protected by the work product
6	report in this case?	6	privilege, and
7	A Additional information came in, and in	7	THE WITNESS:
8	editing my own original first version, I found	8	Right.
9	grammatical errors and that type of thing, which,	9	MS. O'DELL:
10	being a retired professor, I can't abide.	10	and I would ask you not to
11	Q Do you recall what additional	11	THE WITNESS:
12	information came in that you reviewed?	12	Right.
13	A There were depositions by several	13	MS. O'DELL:
14	people. There was a McCarthy report related to	14	testify to those. And I I'll be
15	beneficiation. There was information related	15	careful to object to
16	additional information related to Italian talc.	16	THE WITNESS:
17	There was a stack of documents that I received	17	Correct.
18	primarily online in in a Dropbox.	18	MS. O'DELL:
19	Q The depositions by several people you	19	a specific question.
20	received, do you recall what depositions those	20	MR. FROST:
21	were?	21	Q And your counsel is correct. I'm
22	A Two of them were by people that were	22	allowed to know data, documents, things like
23	not really involved in this, but they they	23	that, and other things that they gave you or told
24	offered information related to the the	24	you that influenced your opinion in this case,
	Page 19		Page 21
1	mineralogy of talc and related amphiboles. One	1	but not communications, necessarily, between the
2	was by Mickey Gunter. One was by a man named	2	two.
3		_	
5	Sanchez, who was one of Gunter's students. There	3	A I understand.
4			
	Sanchez, who was one of Gunter's students. There	3	A I understand.
4	Sanchez, who was one of Gunter's students. There was a deposition by a man named Glassley, who	3 4	A I understand.  The the flow of documents has been
4 5	Sanchez, who was one of Gunter's students. There was a deposition by a man named Glassley, who once worked in Vermont. Those were the three that I remember.  Q Do you recall the dates on those	3 4 5	A I understand.  The the flow of documents has been sort of a continual thing. It it's not that,
4 5 6	Sanchez, who was one of Gunter's students. There was a deposition by a man named Glassley, who once worked in Vermont. Those were the three that I remember.	3 4 5 6	A I understand.  The the flow of documents has been sort of a continual thing. It it's not that,  "Okay"  I I finished writing my my report in '08.
4 5 6 7 8 9	Sanchez, who was one of Gunter's students. There was a deposition by a man named Glassley, who once worked in Vermont. Those were the three that I remember.  Q Do you recall the dates on those depositions?  A No.	3 4 5 6 7 8	A I understand.  The the flow of documents has been sort of a continual thing. It it's not that,  "Okay"  I I finished writing my my report in '08.  "we've got another big pile of
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Sanchez, who was one of Gunter's students. There was a deposition by a man named Glassley, who once worked in Vermont. Those were the three that I remember.  Q Do you recall the dates on those depositions?  A No.  Q Do you recall if those depositions were taken after you had drafted your initial report?  A I think that they were all before.  Q They were all before?  A Uh-huh.  Q And those had not been made available to you prior to your first report?  A No.  Q And I take it plaintiffs' counsel provided those depositions to you?  A Yes.  Q Did plaintiffs' counsel advise you as	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A I understand.  The the flow of documents has been sort of a continual thing. It it's not that,  "Okay"  I I finished writing my my report in '08.  "we've got another big pile of documents we want you to see."  They would enter material into my Dropbox routinely, I mean, maybe a couple times a week. Because, apparently, material was being supplied all along by Johnson & Johnson or Imerys or someone. And as they would scan or screen the material, if it was if they were things that would relate to what I was looking at, then they would enter them into my Dropbox and alert me.  But there was no no instructions in in terms of what I should be looking at or for or anything like that. It was just, "Here's more

	Page 22		Page 24
1	referring to plaintiffs' counsel?	1	Q Did they mark the pages of interest for
2	A Correct.	2	you to look at before you wrote your report?
3	Q When did plaintiffs' counsel start	3	A No. No.
4	sending you documents for your review in this	4	Q Okay. This was all done in preparation
5	case?	5	for the deposition
6	A Ms. O'Dell contacted me, I think, in	6	A Oh, yes.
7	April of 2017, and she supplied me you know,	7	Q today?
8	after discussing the the what she would	8	A Just within the last day or so.
9	like for me to do, I agreed, and she began to	9	Q Okay. I'll rephrase my question.
10	give me background information, including, you	10	So, in sending you documents, at any
11	know, the documents that you see here, I think	11	time that you were being sent documents that you
12	still in late April of 2017.	12	were gonna rely on for your report, did they ever
13	Q And plaintiffs' counsel continued to	13	send documents that were already tabbed or
14	supply you documents through	14	highlighted or had any annotations on them?
15	A Still going on.	15	A Highlighted, some of these look like
16	Q Still they're still	16	they had been highlighted years ago, because they
17	A Sure.	17	were xeroxed copies and you could see where there
18	Q continuing to supply you documents	18	was a a different shade of gray.
19	now?	19	Q Uh-huh.
20	A Sure.	20	A And, so, yes, there were documents like
21	Q And it sounds like you have a a	21	that. And occasionally I would get something
22 23	Dropbox that they're loading documents into?  A Yes.	22	that would have a yellow yellow highlighter on
24		23	it, and it may or may not have related to what I
24	Q Is that the only way that they're	24	was, you know, supposed to be looking at.
	Page 23		Page 25
1	sending you documents?	1	Q Okay. Did you use these highlights and
2	A No. No. Sometimes they'll print them	2	things of that nature to help influence what you
3	out for me. These were printed out in in	3	were looking at or writing in your report?
4	Montgomery. I didn't print them out on my HP	4	A No. But but I couldn't help but
5	bottom-of-the-line printer.	5	wonder why they were highlighted, so I, of
6	Q And looking over at the binders that	6	course, looked at them. And some of them were
7			course, rooked at them. This some of them were
/	are on the table, I note that there are tabs and	7	of of value, and some weren't.
8	sort of stickies and things like that	7 8	
8 9	sort of stickies and things like that A Sure.	7 8 9	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't
8 9 10	sort of stickies and things like that A Sure. Q throughout them. Are those things	7 8 9 10	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have
8 9 10 11	sort of stickies and things like that A Sure. Q throughout them. Are those things that you put in, or did they come that way from	7 8 9 10 11	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've
8 9 10 11 12	sort of stickies and things like that A Sure. Q throughout them. Are those things that you put in, or did they come that way from plaintiffs' counsel?	7 8 9 10 11 12	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've read every page, but I've certainly looked at
8 9 10 11 12 13	sort of stickies and things like that A Sure. Q throughout them. Are those things that you put in, or did they come that way from plaintiffs' counsel? A No. It's it's it's a little	7 8 9 10 11 12 13	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've read every page, but I've certainly looked at every page that they sent.
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8 9 10 11 12 13 14 15 16 17 18 19 20	sort of stickies and things like that A Sure. Q throughout them. Are those things that you put in, or did they come that way from plaintiffs' counsel? A No. It's it's it's a little of of both. These are the actual documents that I referred to in my report. And some of them are long Q Uh-huh. A and there may be only one page that I'm actually referencing. And, so, I've gone through, with their help, and marked that page so	7 8 9 10 11 12 13 14 15 16 17 18 19 20	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've read every page, but I've certainly looked at every page that they sent.  I mean, you know, you can't go through the IARC stuff without falling asleep repeatedly. So, you know, you just can't read all that. But you can look at it, looking for, you know, key words and things like that.  Q Okay. Regarding the Imerys and Johnson & Johnson documents that you've been
8 9 10 11 12 13 14 15 16 17 18 19 20 21	sort of stickies and things like that  A Sure.  Q throughout them. Are those things that you put in, or did they come that way from plaintiffs' counsel?  A No. It's it's it's a little of of both. These are the actual documents that I referred to in my report. And some of them are long  Q Uh-huh.  A and there may be only one page that I'm actually referencing. And, so, I've gone through, with their help, and marked that page so that if you ask me about a document, I we	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've read every page, but I've certainly looked at every page that they sent.  I mean, you know, you can't go through the IARC stuff without falling asleep repeatedly. So, you know, you just can't read all that. But you can look at it, looking for, you know, key words and things like that.  Q Okay. Regarding the Imerys and Johnson & Johnson documents that you've been provided in this case, I take it everything you
8 9 10 11 12 13 14 15 16 17 18 19 20 21	sort of stickies and things like that  A Sure.  Q throughout them. Are those things that you put in, or did they come that way from plaintiffs' counsel?  A No. It's it's it's a little of of both. These are the actual documents that I referred to in my report. And some of them are long  Q Uh-huh.  A and there may be only one page that I'm actually referencing. And, so, I've gone through, with their help, and marked that page so that if you ask me about a document, I we don't spend two hours as I kind of try to figure	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've read every page, but I've certainly looked at every page that they sent.  I mean, you know, you can't go through the IARC stuff without falling asleep repeatedly. So, you know, you just can't read all that. But you can look at it, looking for, you know, key words and things like that.  Q Okay. Regarding the Imerys and Johnson & Johnson documents that you've been provided in this case, I take it everything you have has been provided to you by plaintiffs'
8 9 10 11 12 13 14 15 16 17 18 19 20 21	sort of stickies and things like that  A Sure.  Q throughout them. Are those things that you put in, or did they come that way from plaintiffs' counsel?  A No. It's it's it's a little of of both. These are the actual documents that I referred to in my report. And some of them are long  Q Uh-huh.  A and there may be only one page that I'm actually referencing. And, so, I've gone through, with their help, and marked that page so that if you ask me about a document, I we	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of of value, and some weren't.  I mean, you'll I mean, even though this looks like a lot of material, this isn't it's not half of what they sent. And I I have looked at every page. I won't won't say I've read every page, but I've certainly looked at every page that they sent.  I mean, you know, you can't go through the IARC stuff without falling asleep repeatedly. So, you know, you just can't read all that. But you can look at it, looking for, you know, key words and things like that.  Q Okay. Regarding the Imerys and Johnson & Johnson documents that you've been provided in this case, I take it everything you

7 (Pages 22 to 25)

2 3 4	own library, which Q Uh-huh. A which, you know, some of it's	1 2	already had copies of. Some they gave me a copy
2 3 4	Q Uh-huh.	2	
4	A which you know some of it's		of and I already had it.
	A which, you know, some of its	3	Q Uh-huh.
ᄃ	been been referenced in my report. And	4	A So there's sort of a of an overlap
5	there's a lot of other stuff that, you know,	5	there.
	there would be no need to reference but yet it	6	Q Okay. Was there anything that they
7	deals with talc.	7	supplied you that you'd never seen before that
	Q Did plaintiffs' counsel provide you any	8	influenced or changed your opinions in this case?
	of the published literature you relied on in your	9	MS. O'DELL:
	reports?	10	Object to the form.
	A They've supplied me with the IARC	11	Do you mean like in
	stuff, if you want to consider that published,	12	MR. FROST:
	which I do. But in terms of copies of certain	13	I'm talking about literature.
	published papers that were in journals, yes, they	14	MS. O'DELL:
	supplied me with some full copies of things that	15	Okay. Was it
	I only had abstracts of.	16	I'm sorry.
17	And and, in fact, there was one that	17	MR. FROST:
	I couldn't I had a I had a really good	18	Yeah, I was going to say
	reference to it, but I couldn't come up with it,	19	MS. O'DELL:
	and it's from a field trip guide book in Italy.	20	That was my objection.
	And they supplied me with that.	21	MR. FROST:
	Q Did plaintiffs I guess, better way	22	You're correct. My question wasn't
	of asking this, did plaintiffs supply you with	23	clear.
24	any published literature other than the two IARC	24	Q Focusing on literature, was there any
	Page 27		Page 29
1	publications on their own, or was it all stuff	1	literature that plaintiffs' counsel forwarded you
	that you had requested if they could get copies	2	that influenced influenced or changed the
3	of for you?	3	opinions that you were gonna render in this case?
4	A No. I I'm sure that if we went back	4	MS. O'DELL:
5	through everything I had, there would be copies	5	Object to the form.
6	of publications. There were some Bureau of Mines	6	A No. And there there's there's a
7	publications. There was a USGS publication.	7	reason for that. I didn't have a lot of
8	Um	8	opinions. I hadn't thought about the the
	Q And I don't mean to cut you off, but	9	talc-ovarian cancer issue at all until Ms. O'Dell
	were these publications that you asked to see or	10	called me. So I had I had very few opinions.
	were these publications that plaintiffs' counsel	11	I was familiar with the geology, and I
	sent you and told you	12	know a lot about mining, and, so, you know, my
	A It was a	13	my fundamental knowledge and ideas in those two
	Q to look at?	14	areas were already pretty well established.
	A It was a little bit of both.	15	And, so, from the standpoint of of
	Q Little bit	16	those, the mineralogy, there was nothing that
	A If you	17	I mean, there's some errors in the mineralogy
	Q of both?	18	that, you know, that's floating around right now.
	A If you look if you look at the back	19	But that was information I knew already.
	of my report, there's an enormous long listing	20	The a couple of the papers that I
20			
20 21	of of materials that I I relied on. And	21	I found in dealing with the Italian talc deposits
20 21 22	of of materials that I I relied on. And this is this is pretty much the list of things	22	enhanced what I knew. They were they were
20 21 22 23	of of materials that I I relied on. And		

8 (Pages 26 to 29)

	Page 30		Page 32
1	Q Okay. If if we were to go through	1	geology of the the relevant talc deposits.
2	the the reference list at the back of your	2	Q Do you recall what you asked for?
3	report, would you be able to tell me what was	3	A Well, just happen to have written it
4	supplied to you by plaintiffs that you didn't	4	down.
5	already have?	5	Yeah. There you go.
6	A Hmm.	6	That's a fairly comprehensive list of
7	MS. O'DELL:	7	what I asked for.
8	Are you limiting that to the	8	MR. FROST:
9	literature?	9	Mark this as Exhibit 5. I think we're
10	MR. FROST:	10	on 5; right?
11	I gotcha.	11	THE COURT REPORTER:
12	Yeah, to the literature.	12	Yes, uh-huh.
13	THE WITNESS:	13	MR. FROST:
14	Did we put all the IARC stuff in in	14	Thank you.
15 16	literature?	15	(DEPOSITION EXHIBIT NUMBER 5
16 17	I mean, some of it has Bates numbers.	16	WAS MARKED FOR IDENTIFICATION.)
	And if it was a Bates number, then they obviously	17	MR. FROST:
18 19	supplied it to me. Doesn't mean I didn't already have a copy of it.	18	Q Okay. I'll hand this back to you.
20	If it was a if it was a company	19	A Okay.
21	document of some sort, obviously, I never had a	20	Q So you believe that's a fairly
22	copy of it.	21	comprehensive list of all the documents you asked
23	But there I could sit down and maybe	22	for from plaintiffs' counsel?
24	go through the list with you and show you which	23	A It probably isn't, because this has
21	go through the fist with you and show you which	24	been going on we're pushing two years now.
	Page 31		Page 33
1	things that that they may have given me, but	1	A d The
		<u>+</u>	And I'm sure there were instances when when we
2	it's not gonna be isn't anything consequential	2	were talking on the phone and I'd say, "Do we
2			
	it's not gonna be isn't anything consequential	2	were talking on the phone and I'd say, "Do we
3	it's not gonna be isn't anything consequential relative to the materials I already had.	2 3	were talking on the phone and I'd say, "Do we do we have anything related to froth flotation
3 4	it's not gonna be isn't anything consequential relative to the materials I already had.  MR. FROST:	2 3 4	were talking on the phone and I'd say, "Do we do we have anything related to froth flotation that was used at West Windsor?" I mean, I might
3 4 5	it's not gonna be isn't anything consequential relative to the materials I already had.  MR. FROST:  Okay. I'm gonna ask maybe we'll do	2 3 4 5	were talking on the phone and I'd say, "Do we do we have anything related to froth flotation that was used at West Windsor?" I mean, I might have I might have, you know, couched a question like that. So I would say that, in all fairness, I
3 4 5 6	it's not gonna be isn't anything consequential relative to the materials I already had.  MR. FROST:  Okay. I'm gonna ask maybe we'll do that during a break or something	2 3 4 5 6	were talking on the phone and I'd say, "Do we — do we have anything related to froth flotation that was used at West Windsor?" I mean, I might have — I might have, you know, couched a question like that.  So I would say that, in all fairness, I probably did ask for other things.
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9 (Pages 30 to 33)

	Page 34		Page 36
1	Q Did you ever ask to conduct your own	1	A I was told that that, relative to
2	searches of all of the documents provided by the	2	this material here, that what I've got is what
3	two corporate defendants in this case?	3	is what they received after their request.
4	A I'm I'm not sure I understand what	4	MR. FROST:
5	you're asking.	5	Q All right. And you have no way of
6	Q Sure. Did you ever ask for access to	6	verifying whether or not what they sent you was
7	all of the documents that have been produced in	7	just a collection of documents that they had
8	this case by	8	culled through that
9	A No.	9	MS. O'DELL:
10	Q either Johnson & Johnson or Imerys?	10	Object
11	A No.	11	MR. FROST:
12	Q Did you ever ask to be able to run any	12	Q justifies their opinions and their
13	searches yourself against a database, say, of all	13	positions in this case?
14	of those documents?	14	MS. O'DELL:
15	A No.	15	Object to the form.
16	Q So you've relied on the set of	16	A I would have I don't know how
17	documents as put together by plaintiffs'	17	anybody would know the answer to that. I mean,
18	counsel	18	no.
19	A Yes.	19	MR. FROST:
20	Q — for your opinions?	20	Q Okay.
21	MS. O'DELL:	21	A I mean, I've not had access to every
22	Object object to the form.	22	document involved in this case, so I have no
23	MR. FROST:	23	no idea.
24	Q And you have no way of knowing	24	Q Okay. Do you think, as an expert
	Page 35		Page 37
1	right? if you've received every document that	1	giving opinions regarding some of the mining and
2	would be responsive to any of the requests you	1 2	giving opinions regarding some of the mining and sampling practices for example, of Imerys and
2 3	would be responsive to any of the requests you made?	1	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important
2 3 4	would be responsive to any of the requests you made?  A Based on the Bates numbers, I would say	2 3 4	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important to have a complete set of all data and
2 3 4 5	would be responsive to any of the requests you made?  A Based on the Bates numbers, I would say that that that there's that I've I've	2 3 4 5	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important to have a complete set of all data and information before rendering those opinions?
2 3 4 5 6	would be responsive to any of the requests you made?  A Based on the Bates numbers, I would say that that that there's that I've I've looked at maybe a few percent of the documents	2 3 4 5 6	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important to have a complete set of all data and information before rendering those opinions? MS. O'DELL:
2 3 4 5 6 7	would be responsive to any of the requests you made?  A Based on the Bates numbers, I would say that that that there's that I've I've looked at maybe a few percent of the documents that are somehow entered into this. And, so, I	2 3 4 5 6 7	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important to have a complete set of all data and information before rendering those opinions?  MS. O'DELL:  Object to the form.
2 3 4 5 6 7 8	would be responsive to any of the requests you made?  A Based on the Bates numbers, I would say that that that there's that I've I've looked at maybe a few percent of the documents that are somehow entered into this. And, so, I can't say that that Imerys 436182 wouldn't	2 3 4 5 6 7 8	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important to have a complete set of all data and information before rendering those opinions?  MS. O'DELL:  Object to the form.  A My opinions are based on the material
2 3 4 5 6 7 8	would be responsive to any of the requests you made?  A Based on the Bates numbers, I would say that — that — that there's — that I've — I've looked at maybe a few percent of the documents that are somehow entered into this. And, so, I can't say that — that Imerys 436182 wouldn't have something relevant.	2 3 4 5 6 7 8	giving opinions regarding some of the mining and sampling practices for example, of Imerys and Johnson & Johnson that it would be important to have a complete set of all data and information before rendering those opinions?  MS. O'DELL:  Object to the form.  A My opinions are based on the material that was supplied to us after we asked.
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10 (Pages 34 to 37)

	Page 38		Page 40
1	an exercise in the application of the scientific	1	today, have you reviewed any other depositions to
2	method. And, so, that that requires you to	2	prepare for this case?
3	continue to test what you have opinion on. But	3	MS. O'DELL:
4	it looks like, based on everything that I've	4	Object to the form. I don't think he's
5	I've been given, that that there's pretty	5	mentioned a Dr there's not I'm not aware
6	pretty solid support for the opinions I've made	6	of a Downey
7	so far. But but I would be more than willing	7	MR. FROST:
8	to look at additional data, for sure.	8	Oh, is he not a doctor?
9	Q And, for example, you know, you note	9	MS. O'DELL:
10	with respect to, say, sampling and testing that	10	witness in this case.
11	there appears to be hundreds, if not thousands,	11	MR. FROST:
12	of tests that are missing from the documents	12	Oh, okay.
13	you've looked at. Is that correct?	13	MS. O'DELL:
14	MS. O'DELL:	14	I don't think he's a doctor, but I
15	Object to the form.	15	don't think he mentioned him.
16	A That that would be my that	16	MR. FROST:
17	that could be an opinion, yes. It because	17	Okay.
18	there's description of samples that are taken	18	MS. O'DELL:
19	here, there, and everywhere and in certain time	19	So you might ask an open-ended
20	periods, and then but you look for the results	20	question.
21	of the analyses, and they aren't there.	21	Or, if you understand it, please
22	MR. FROST:	22	A I I understand what you're asking.
23	Q Okay.	23	MR. FROST:
24	A So, yeah, I'm sure.	24	Q Sure.
	Page 39		Page 41
1			
_	Q So you agree with me it looks like,	1	A There's a list of depositions that I
2	you know, you don't have the complete set of	1 2	A There's a list of depositions that I I have looked at that's in this list of materials
	you know, you don't have the complete set of testing data, for example?		
2	you know, you don't have the complete set of	2	I have looked at that's in this list of materials
2	you know, you don't have the complete set of testing data, for example?	2 3	I have looked at that's in this list of materials considered.
2 3 4	you know, you don't have the complete set of testing data, for example? MS. O'DELL:	2 3 4	I have looked at that's in this list of materials considered.  And there's Hopkins. It's footnoted in
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	Page 42		Page 44
1	MS. O'DELL:	1	Q And you've reviewed these while they
2	I think Glassley was listed.	2	were in draft form?
3	MR. FROST:	3	MS. O'DELL:
4	Oh, was he?	4	Object to the form.
5	MS. O'DELL:	5	A I don't know whether they were draft
6	Yeah.	6	form or not. They were they were in good
7	MR. FROST:	7	shape in terms of grammar and punctuation. I
8	Q Have you reviewed any of the	8	would have I would have certainly thought they
9	depositions of the other experts in this talc	9	were close to final.
10	MDL?	10	MR. FROST:
11	A I don't know.	11	Q Did you review these prior to
12	Oh, the depositions?	12	finalizing your initial report?
13	Q Yes.	13	A No.
14	A I'm not sure about who was	14	Q Have you reviewed these after the
15	When you say the MDL	15	initial report?
16	Q In this particular case.	16	A Yes.
17	A Oh.	17	Q Did you review these before the
18	Q Any of the other experts from	18	issuing the second report?
19	plaintiffs' counsel in this case?	19	A Yes.
20	A I think we've got them listed.	20	Q The amended?
21	Q Have other than the	21	In reviewing the the Smith,
22	I'll ask this a different way. We've	22	Zelikoff, Campion, and Krekeler reports, did that
23	been taking depositions of various plaintiffs'	23	at all influence any of the opinions or any of
24	experts for the past about month.	24	the analysis you did in the amended report?
-	Page 43		Page 45
1	A Uh-huh.	1	A It did not. I I was a little bit
2	<ul><li>A Uh-huh.</li><li>Q Have you seen or read any of those</li></ul>	1 2	A It did not. I I was a little bit intrigued with the Campion, the Campion report.
	Q Have you seen or read any of those transcripts?		intrigued with the Campion, the Campion report. It made me think that that was a field of
2	<ul><li>Q Have you seen or read any of those transcripts?</li><li>A No.</li></ul>	2 3 4	intrigued with the Campion, the Campion report. It made me think that that was a field of potential research. I didn't realize that
2 3 4 5	<ul><li>Q Have you seen or read any of those transcripts?</li><li>A No.</li><li>Q Okay. And you're aware that plaintiffs</li></ul>	2 3 4 5	intrigued with the Campion, the Campion report. It made me think that that was a field of potential research. I didn't realize that that the Raman approach could be as useful as it
2 3 4 5 6	<ul> <li>Q Have you seen or read any of those transcripts?</li> <li>A No.</li> <li>Q Okay. And you're aware that plaintiffs served other expert reports, like yours, in in</li> </ul>	2 3 4 5 6	intrigued with the Campion, the Campion report. It made me think that that was a field of potential research. I didn't realize that that the Raman approach could be as useful as it might be.
2 3 4 5 6 7	Q Have you seen or read any of those transcripts? A No. Q Okay. And you're aware that plaintiffs served other expert reports, like yours, in in November?	2 3 4 5 6 7	intrigued with the Campion, the Campion report.  It made me think that that was a field of potential research. I didn't realize that that the Raman approach could be as useful as it might be.  Q Was this more a, you know, sort of
2 3 4 5 6 7 8	Q Have you seen or read any of those transcripts? A No. Q Okay. And you're aware that plaintiffs served other expert reports, like yours, in in November? A Yes.	2 3 4 5 6 7 8	intrigued with the Campion, the Campion report.  It made me think that that was a field of potential research. I didn't realize that that the Raman approach could be as useful as it might be.  Q Was this more a, you know, sort of piqued your interest or personal curiosity
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Have you seen or read any of those transcripts?  A No. Q Okay. And you're aware that plaintiffs served other expert reports, like yours, in in November? A Yes. Q And then some in January? A Yes. Q Have you reviewed any of those reports? A I looked at a a draft of Krekeler and Campion. I'm assum I don't know whether he's been deposed or not. And there were there were two others who were really related to generating summaries of published literature. But Campion's was interesting since it was a Raman spectra deposition or expert report. Q Do you recall who the other two were? A No. Believe it or not, one of them's name was Smith, and the other one had a foreign name.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	intrigued with the Campion, the Campion report. It made me think that that was a field of potential research. I didn't realize that that the Raman approach could be as useful as it might be.  Q Was this more a, you know, sort of piqued your interest or personal curiosity A Yeah. Right.  Q as opposed to the opinions you're rendering in this case?  A Yes.  Q I take it you've done work with Raman's spectrograph?  A I have sort of steered clear of it. We didn't have a machine on campus, and so I didn't I wasn't as familiar with it as I probably should have been. And then I read his report, and I and it's pretty interesting.  Q And you noted that you looked at a draft of Krekeler's report.  A Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q Have you seen or read any of those transcripts?  A No. Q Okay. And you're aware that plaintiffs served other expert reports, like yours, in in November? A Yes. Q And then some in January? A Yes. Q Have you reviewed any of those reports? A I looked at a a draft of Krekeler and Campion. I'm assum I don't know whether he's been deposed or not. And there were there were two others who were really related to generating summaries of published literature. But Campion's was interesting since it was a Raman spectra deposition or expert report. Q Do you recall who the other two were? A No. Believe it or not, one of them's name was Smith, and the other one had a foreign	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	intrigued with the Campion, the Campion report. It made me think that that was a field of potential research. I didn't realize that that the Raman approach could be as useful as it might be.  Q Was this more a, you know, sort of piqued your interest or personal curiosity A Yeah. Right.  Q as opposed to the opinions you're rendering in this case?  A Yes.  Q I take it you've done work with Raman's spectrograph?  A I have sort of steered clear of it. We didn't have a machine on campus, and so I didn't I wasn't as familiar with it as I probably should have been. And then I read his report, and I and it's pretty interesting.  Q And you noted that you looked at a draft of Krekeler's report.

12 (Pages 42 to 45)

	Page 46		Page 48
1	A There were two drafts that I looked at.	1	because I work closely with a man named
2	I looked at an early one and a final one. The	2	John Rakovan, who is probably his boss. He's
3	the the parts that I thought were	3	a John is also a professor at Miami of Ohio.
4	MS. O'DELL:	4	And I had when they were considering Krekeler,
5	Dr. Cook	5	I you know, I checked checked with John
6	THE WITNESS:	6	Rakovan about him, and he got a nice clean bill
7	Yes.	7	of health. So I kind of knew who he was going
8	MS. O'DELL:	8	into this.
9	To the degree that you're that	9	Q Did you offer any written comments
10	there were any discussions, those are not	10	A No.
11	something that I I would instruct you not to	11	
12	testify to discussions	1	Q to either of the two drafts?
13	THE WITNESS:	12	A I don't think I did.
14	I understand.	13	Q Okay. Did you discuss any comments to
15	MS. O'DELL:	14	the drafts with plaintiffs' counsel?
16		15	A I probably did.
17	with plaintiffs' counsel. THE WITNESS:	16	Q Do you remember what areas of his
		17	report those comments would have been about?
18	Understand.	18	A They were I think that they weren't
19	I felt that they were in depth and	19	really about areas of his report. They were
20	and that that what he had to say was was	20	they were more about he's gone into great detail
21	good in in a lot of areas.	21	here. Probably it's, you know, irrelevant, he
22	MR. FROST:	22	needs to shorten it, that type of thing.
23	Q Okay. Do you offer any comments to	23	I looked at his report as if I was
24	Dr. Krekeler's report?	24	looking at a student's report and what I would do
			•
	Page 47		Page 49
1	Page 47 $A \qquad \text{In like in writing?} \\$	1	Page 49 to, you know, to make it easier to read, more
1 2		1 2	
	A In like in writing?		to, you know, to make it easier to read, more
2	A In like in writing? MS. O'DELL:	2	to, you know, to make it easier to read, more understandable. I mean, I thought that he
2	A In like in writing? MS. O'DELL: Same instruction.	2 3	to, you know, to make it easier to read, more understandable. I mean, I thought that he that his first draft was was probably way more than was needed.
2 3 4	A In like in writing?  MS. ODELL: Same instruction.  THE WITNESS: Yeah.	2 3 4	to, you know, to make it easier to read, more understandable. I mean, I thought that he that his first draft was was probably way more than was needed.  Q And other than grammatical things and
2 3 4 5 6	A In like in writing?  MS. O'DELL: Same instruction.  THE WITNESS:	2 3 4 5	to, you know, to make it easier to read, more understandable. I mean, I thought that he that his first draft was was probably way more than was needed.  Q And other than grammatical things and things that relate to length, did you have any
2 3 4 5 6 7	A In like in writing?  MS. ODELL: Same instruction.  THE WITNESS: Yeah. Not really.  MR. FROST:	2 3 4 5 6	to, you know, to make it easier to read, more understandable. I mean, I thought that he that his first draft was was probably way more than was needed.  Q And other than grammatical things and things that relate to length, did you have any substantive comments about the contents of his
2 3 4 5 6 7 8	A In like in writing?  MS. ODELL: Same instruction.  THE WITNESS: Yeah. Not really.  MR. FROST: Q Okay. By "not really," does that mean	2 3 4 5 6 7 8	to, you know, to make it easier to read, more understandable. I mean, I thought that he — that his first draft was — was probably way more than was needed.  Q And other than grammatical things and things that relate to length, did you have any substantive comments about the contents of his report?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A In like in writing?  MS. ODELL: Same instruction.  THE WITNESS: Yeah. Not really.  MR. FROST: Q Okay. By "not really," does that mean that, you know, none as far as writing and content, or did you have some comments in the report that you then conveyed?  A Well, I mean, if you're gonna read something, so you're gonna end up discussing it in some way. You know, if you don't, then why why bother reading it if it's not gonna enter into the bigger picture? But but, no. I mean, I wasn't I wasn't asked to sit down and carefully critique either one of those reports. And I certainly think that he he pointed out some important things that that that should be considered. Q Do you know why you were asked to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to, you know, to make it easier to read, more understandable. I mean, I thought that he that his first draft was was probably way more than was needed.  Q And other than grammatical things and things that relate to length, did you have any substantive comments about the contents of his report?  A I liked I liked MS. O'DELL:  Dr. Cook, to the degree that those comments were discussions that you had with me THE WITNESS:  Right.  MS. O'DELL:  or plaintiffs' counsel, they're not entitled to ask you that question, and, so, I'm instructing you not to convey those comments.  THE WITNESS:  Okay.  MR. FROST:  We disagree. And you can raise it, but

	Page 50		Page 52
1	through counsel or not, are subject to	1	Q So there's no reason to flip through
2	disclosure. But we can deal with that at a later	2	Exhibit 1 at this point. Exhibit 2
3	time if you're instructing him not to answer.	3	A No.
4	THE WITNESS:	4	Q contains your opinions.
5	Yeah.	5	Okay. If you could turn to page 38 of
6	MS. O'DELL:	6	your amended report at the very bottom.
7	And to the	7	A Okay. Okay. Got it.
8	Excuse me.	8	Q I take it this is the reference you're
9	To the degree that there is a comment	9	talking about, the "normally expected failure or
10	that you've made to me or or other plaintiffs'	10	rejection rates were not observed, as discussed
11	counsel, then then that's something that I'm	11	in detail in the expert report of Krekeler
12	instructing you not to testify to.	12	(2018)?
13	THE WITNESS:	13	A That's correct.
14	Right.	14	Q Okay. And I take it, other than this
15 16	MS. O'DELL:	15	reference, you know, you yourself have no
16	So if there's so	16 17	opinions about the whether or not failure
17	THE WITNESS:		rejection rates were correct? You're deferring
18 19	You're not asking if I've had direct contact with Krekeler, are you?	18 19	to Krekeler for that?  A I'm deferring to him. I have an
20		20	<u>e</u>
21	MR. FROST:	21	opinion, you know, but I don't I don't have the strength of knowledge to support my opinion.
22	Q Asking that next, but A Well, I haven't.	22	Q Okay.
23	Q Okay.	23	A But I defer to him because I believe he
24	A And and I personally think that	24	does.
2.1	71 7 And and I personally units that		does.
	Page 51		Page 53
1	there was some some important things that he	1	Q Yeah. So you haven't done any
2	pointed out. And whether or not I mentioned them	2	independent statistical analysis or anything like
3	to Miss O'Dell or not, I don't know. But I	3	that regarding rejection rates?
4	certainly, in reading his final draft, I thought	4	A No.
5	there were some interesting things in there.	5	Q Do you believe there's anything in your
6	They weren't things that I had addressed myself,	6	report that you accidentally copied from a site
7	and I thought they were good.	7	that you didn't either put quotes around or put a
8	Q Is there anything in the Krekeler	8	proper citation to?
9	drafts that you included in your report because	9	A I hope not. I mean, there could be,
10	you had read through his?	10	but I would hope that there wouldn't be.
11	A I only mentioned and actually deferred	11	Q If you turn to page 9 of your report.
12	to him the concept of sampling frequency, the	12	Specifically, I'll direct your attention to
13	the expected failure rate of samples that	13	Footnote 12.
14	He had references to all of that and	14	A Okay.
15 16	pointed out that that seemed to be something	15	Q Do you know where you got this
16 17	that that was contrary to expectation. And,	16	information from?
17 18	so, I pointed that out. But I refer completely to him.	17	A This was probably pulled out of perhaps
Τ0	Q If you turn	18 19	AGI glossary or one of the one of the AIME references.
1 0	Q II you turii		Q Are you familiar with the website of a
19 20	Actually this is a good point I take		ATE YOU TAITHITAL WITH THE WEUSITE OF A
20	Actually, this is a good point. I take	20	The state of the s
20 21	it by I take it your intention was that the	21	company called Rishabh Metals & Chemicals?
20 21 22	it by I take it your intention was that the amended report in Exhibit 2 would take the place	21 22	company called Rishabh Metals & Chemicals?  A No.
20 21	it by I take it your intention was that the	21	company called Rishabh Metals & Chemicals?

14 (Pages 50 to 53)

	Page 54		Page 56
1	THE COURT REPORTER:	1	the things in the table I described you know,
2	Yes, we are.	2	every single reference I had described verbally.
3	(DEPOSITION EXHIBIT NUMBER 6	3	And then when I saw the table that was being
4	WAS MARKED FOR IDENTIFICATION.)	4	prepared, I guess, in Hopkins, it was pretty
5	MR. FROST:	5	clear that, oh, my God, this is you know, I
6	Q I'd like to turn your attention to what	6	need to do this with with every data set, go
7	is on the printout 1, 2, 3, 4, 5, 6 page 7.	7	ahead and make tables.
8	A I'm not sure that I haven't seen this	8	And, so, Beasley Allen folks helped
9	on the Internet.	9	construct the I guess it was an Excel table.
10	Q If you look under "or beneficiation."	10	Q These are the tables that are
11	A Sure.	11	A Yeah. But that's it. Everything else
12	Q And do you agree with me that what's in	12	is is
13	the report appears to be a quote	13	And if I'm just thinking about the
14	A Sure.	14	Zelikoff thing. I did get a I did get a
15	Q from this website?	15	reference out of hers. But that's all I
16	A It'd be nice to know where they got	16	remember.
17	their definition. Seriously.	17	Q Okay. And by "the tables," you're
18	Q Okay. But do you believe that you saw	18	referring to the various tables that appear
19	this website while you were drafting your report?	19	you know, some start on page 13.
20	A You know, when you when you	20	A The tables have replaced very long
21	mentioned the name, it didn't ring a bell. But I	21	paragraphs that describe each one of these for
22	believe I have seen this.	22	the most part, each one. Some of them, the ones
23	Q Okay.	23	from the Hicks not Hicks the Hopkins depo,
24	A But I don't I don't know the	24	some of those I didn't have until I got his depo.
	Page 55		Page 57
1	Page 55	1	Page 57
1 2	company.	1 2	Q Okay. Did you put together the tables
2	company. Q All right. Mark this as Exhibit 7,	2	Q Okay. Did you put together the tables or was that something that Beasley Allen
2 3	company.  Q All right. Mark this as Exhibit 7, please.	2	Q Okay. Did you put together the tables or was that something that Beasley Allen A No. They helped.
2 3 4	company.  Q All right. Mark this as Exhibit 7, please.  (DEPOSITION EXHIBIT NUMBER 7	2 3 4	Q Okay. Did you put together the tables or was that something that Beasley Allen A No. They helped. Q put together for you?
2 3 4 5	company.  Q All right. Mark this as Exhibit 7, please.  (DEPOSITION EXHIBIT NUMBER 7 WAS MARKED FOR IDENTIFICATION.)	2 3 4 5	<ul> <li>Q Okay. Did you put together the tables or was that something that Beasley Allen</li> <li>A No. They helped.</li> <li>Q put together for you?</li> <li>A They helped.</li> </ul>
2 3 4	company.  Q All right. Mark this as Exhibit 7, please.  (DEPOSITION EXHIBIT NUMBER 7 WAS MARKED FOR IDENTIFICATION.) MR. FROST:	2 3 4 5 6	<ul> <li>Q Okay. Did you put together the tables or was that something that Beasley Allen</li> <li>A No. They helped.</li> <li>Q put together for you?</li> <li>A They helped.</li> <li>Q And I take it, when they sent you the</li> </ul>
2 3 4 5 6	company.  Q All right. Mark this as Exhibit 7, please.  (DEPOSITION EXHIBIT NUMBER 7 WAS MARKED FOR IDENTIFICATION.)  MR. FROST: Q Do you recognize this as the expert	2 3 4 5	Q Okay. Did you put together the tables or was that something that Beasley Allen A No. They helped. Q put together for you? A They helped. Q And I take it, when they sent you the tables, it sounds like there were additional
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	Page 58		Page 60
1	Q And, so, I compared the you know,	1	A I think so.
2	the report in Exhibit 1 to the report in Exhibit	2	Q report?
3	2. It looks like a lot of the changes that were	3	Okay. So these weren't new lists that
4	made were within the tables. Does that sound	4	were sent to you by Beasley Allen?
5	correct?	5	A No. No, no.
6	A It there could have been, sure.	6	And have you reviewed all of the
7	Q What type of changes were made to	7	documents that are in each of the charts?
8	Table	8	A I think I have.
9	Well, strike that.	9	Q And I note that your charts are I'm
10	Did were these changes that you made	10	not gonna say exactly the same, because,
11	or were these changes that were made by Beasley	11	actually, your amended ones change some of the
12	Allen?	12	language, but they're materially similar to those
13	A I went through the table in one and	13	showing up in the report of Dr. Krekeler. Have
14	found a goodly number of things that I thought	14	you had a chance to review the charts in his
15	were wrong, but they were some of them were	15 16	reports?
16	spellings that were related to probably	17	A I've seen a version. I don't know
17	spellchecker, like the word "Cyprus" for Cyprus	18	whether it was his latest version. And, yeah, he he had I mean, that was the whole idea.
18	Corporation was misspelled a number of times.	19	We've got now we've got charts to replace long
19	There were some incidences where I	20	paragraphs. And, so, they should be similar.
20	questioned whether the right terminology was used	21	Q Okay. And this was the work done by
21	for mineralogy, for a mineralogical citation.	22	Beasley Allen?
22	And, you know, we keep going back	23	A In terms of
$\sim$	through these tables, and there's I think		
23	- · · · · · · · · · · · · · · · · · · ·	24	MS O'DELL.
24	there may be one sample in the asbestos that may	24	MS. O'DELL:
	- · · · · · · · · · · · · · · · · · · ·	24	MS. O'DELL: Page 61
	there may be one sample in the asbestos that may		
24	there may be one sample in the asbestos that may  Page 59		Page 61
24	there may be one sample in the asbestos that may  Page 59  not actually be a cosmetic or in the talc that		Page 61 Object to the form.
24 1 2	there may be one sample in the asbestos that may  Page 59  not actually be a cosmetic or in the talc that may not be a cosmetic talc.		Object to the form.  A Right. In terms of the compilation of
24 1 2 3	there may be one sample in the asbestos that may  Page 59  not actually be a cosmetic or in the talc that may not be a cosmetic talc.  Q Okay. Do you do you recall which		Object to the form.  A Right. In terms of the compilation of the charts, I mean, I'm pretty sure a secretary
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	there may be one sample in the asbestos that may  Page 59  not actually be a cosmetic or in the talc that may not be a cosmetic talc.  Q Okay. Do you do you recall which one that would be or  A No.  Q do you have the ability to identify? Okay.  A It was a it had a number. It was a numerical sample number.  Q And were these changes, then, that you made to the  A I don't think  Q charts that were prepared?  A I don't think they were intact, and I didn't notice that until a day or two ago.  Q Okay. The other changes that were made between the original report and the amended report, were these changes that you made in going through the original report and correcting the spellings?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Object to the form.  A Right. In terms of the compilation of the charts, I mean, I'm pretty sure a secretary did it.  MR. FROST: Q Okay. And then they sent it to you for inclusion in the report?  A Yes.  MS. O'DELL: Object to the form.  MR. FROST: Q All right. So turning to page 31 of your report.  A Yes. Q See the paragraph at the top of 31, it says it's starts with the "According to J&J's corporate representative."  A Right. Q Do you know where you got this information from?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	there may be one sample in the asbestos that may  Page 59  not actually be a cosmetic or in the talc that may not be a cosmetic talc.  Q Okay. Do you do you recall which one that would be or  A No.  Q do you have the ability to identify? Okay.  A It was a it had a number. It was a numerical sample number.  Q And were these changes, then, that you made to the  A I don't think  Q charts that were prepared?  A I don't think they were intact, and I didn't notice that until a day or two ago.  Q Okay. The other changes that were made between the original report and the amended report, were these changes that you made in going through the original report and correcting the spellings?  A Tried to, yes.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Object to the form.  A Right. In terms of the compilation of the charts, I mean, I'm pretty sure a secretary did it.  MR. FROST:  Q Okay. And then they sent it to you for inclusion in the report?  A Yes.  MS. O'DELL:  Object to the form.  MR. FROST:  Q All right. So turning to page 31 of your report.  A Yes.  Q See the paragraph at the top of 31, it says it's starts with the "According to J&J's corporate representative."  A Right.  Q Do you know where you got this information from?  A Yes.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	there may be one sample in the asbestos that may  Page 59  not actually be a cosmetic or in the talc that may not be a cosmetic talc.  Q Okay. Do you do you recall which one that would be or  A No.  Q do you have the ability to identify?  Okay.  A It was a it had a number. It was a numerical sample number.  Q And were these changes, then, that you made to the  A I don't think  Q charts that were prepared?  A I don't think they were intact, and I didn't notice that until a day or two ago.  Q Okay. The other changes that were made between the original report and the amended report, were these changes that you made in going through the original report and correcting the spellings?  A Tried to, yes.  Q Okay. And are you the one who made all	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Object to the form.  A Right. In terms of the compilation of the charts, I mean, I'm pretty sure a secretary did it.  MR. FROST:  Q Okay. And then they sent it to you for inclusion in the report?  A Yes.  MS. O'DELL:  Object to the form.  MR. FROST:  Q All right. So turning to page 31 of your report.  A Yes.  Q See the paragraph at the top of 31, it says it's starts with the "According to J&J's corporate representative."  A Right.  Q Do you know where you got this information from?  A Yes.  MS. O'DELL:
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16 (Pages 58 to 61)

	Page 62		Page 64
1	The top paragraph in 31, the "According	1	Q or the one preceding it that we
2	to J&J's corporate representative."	2	talked about?
3	A I think that that's in a deposition.	3	A No.
4	Q Can you turn to page 11 of	4	Q I'm gonna show you one more on page 34
5	Dr. Zelikoff's report?	5	of your report, please. Do you see the paragraph
6	A Okay.	6	that's above "Cobalt"?
7	Q Third paragraph down, starts "According	7	A Yes.
8	to Johnson & Johnson's corporate representative."	8	Q Okay. And then the paragraph right
9	A Right.	9	above that, I think it's the second-to-last
10	Q And I'll just let you review the two.	10	sentence, starts "Interestingly, there is
11	Do you agree with me that these two paragraphs	11	significant difference between."
12	are almost exactly the same?	12	A Okay.
13	MS. O'DELL:	13	MS. O'DELL:
14	Object to the form.	14	I'm sorry. Where where are you,
15	A Well, I can tell you that I wrote mine	15	Jack? Excuse me.
16	before she wrote or before I ever saw hers.	16	MR. FROST:
17	MR. FROST:	17	It's page 34, so it's the full
18	Q Okay.	18	paragraph above "Cobalt" and then the last two
19	A So, you know, if they're similar, okay.	19	sentences in the paragraph above that. It
20	But, you know, I didn't receive hers until maybe	20	starts, "Interestingly, there is significant
21	a month ago.	21	difference."
22	Q Okay. So you certainly would didn't	22	MS. O'DELL:
23	read and rely on Dr. Zelikoff	23	Okay.
24	A No.	24	MR. FROST:
	Page 63		Page 65
	<b>J</b>		
1	O in order to draft your your	1	O Okay And looking back again at pages
1 2	Q in order to draft your your	1 2	Q Okay. And looking back again at pages
2	portion of the report?	2	11 and 12 of Dr. Zelikoff's report
2	portion of the report?  A No.	2 3	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is
2 3 4	portion of the report?  A No.  Q If you can turn to page 32 of your	2 3 4	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report.
2 3 4 5	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts	2 3 4 5	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say,
2 3 4	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."	2 3 4 5 6	11 and 12 of Dr. Zelikoff's report — A That's interesting, because this is a — something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I — I will say all of this information
2 3 4 5 6	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.	2 3 4 5	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I I will say all of this information was in your original report.
2 3 4 5 6 7	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at	2 3 4 5 6 7	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I I will say all of this information was in your original report.
2 3 4 5 6 7 8	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.	2 3 4 5 6 7 8	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I I will say all of this information was in your original report. A Yeah. I mean, I maybe she got ahold
2 3 4 5 6 7 8 9	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.	2 3 4 5 6 7 8	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I I will say all of this information was in your original report. A Yeah. I mean, I maybe she got ahold of it. I don't know.
2 3 4 5 6 7 8 9	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.  Q And it's the fourth paragraph down. If	2 3 4 5 6 7 8 9	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I I will say all of this information was in your original report. A Yeah. I mean, I maybe she got ahold of it. I don't know. Q Okay.
2 3 4 5 6 7 8 9 10	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.  Q And it's the fourth paragraph down. If you can read those two.	2 3 4 5 6 7 8 9 10	11 and 12 of Dr. Zelikoff's report — A That's interesting, because this is a — something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I — I will say all of this information was in your original report. A Yeah. I mean, I — maybe she got ahold of it. I don't know. Q Okay. A But I certainly didn't take anything
2 3 4 5 6 7 8 9 10 11	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.  Q And it's the fourth paragraph down. If you can read those two.  Do you agree with me that they're	2 3 4 5 6 7 8 9 10 11	11 and 12 of Dr. Zelikoff's report — A That's interesting, because this is a — something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I — I will say all of this information was in your original report. A Yeah. I mean, I — maybe she got ahold of it. I don't know. Q Okay. A But I certainly didn't take anything out of hers.
2 3 4 5 6 7 8 9 10 11 12	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.  Q And it's the fourth paragraph down. If you can read those two.  Do you agree with me that they're almost exactly the same again?	2 3 4 5 6 7 8 9 10 11 12 13	11 and 12 of Dr. Zelikoff's report — A That's interesting, because this is a — something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I — I will say all of this information was in your original report. A Yeah. I mean, I — maybe she got ahold of it. I don't know. Q Okay. A But I certainly didn't take anything out of hers. Q All right. And you'd agree with me, if
2 3 4 5 6 7 8 9 10 11 12 13 14	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.  Q And it's the fourth paragraph down. If you can read those two.  Do you agree with me that they're almost exactly the same again?	2 3 4 5 6 7 8 9 10 11 12 13 14	11 and 12 of Dr. Zelikoff's report — A That's interesting, because this is a — something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I — I will say all of this information was in your original report. A Yeah. I mean, I — maybe she got ahold of it. I don't know. Q Okay. A But I certainly didn't take anything out of hers. Q All right. And you'd agree with me, if you look at page 11 to 12 —
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	portion of the report?  A No.  Q If you can turn to page 32 of your report, the second paragraph that says starts "Talc mine in Vermont."  A Okay.  Q Okay. Again, if you can look at Dr. Zelikoff's page 11.  A Okay.  Q And it's the fourth paragraph down. If you can read those two.  Do you agree with me that they're almost exactly the same again?  A Yep.  MS. O'DELL:  Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	11 and 12 of Dr. Zelikoff's report A That's interesting, because this is a something that was in my original report. Q Okay. Yeah. I was gonna say, actually, I I will say all of this information was in your original report. A Yeah. I mean, I maybe she got ahold of it. I don't know. Q Okay. A But I certainly didn't take anything out of hers. Q All right. And you'd agree with me, if you look at page 11 to 12 A Right. Q again, the same language A Right.
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17 (Pages 62 to 65)

	Page 66		Page 68
1	not a minute, actually a second to object if I	1	of of the Italian talc deposits.
2	need to.	2	Q Okay.
3	THE WITNESS:	3	A And and, you know, and that was an
4	I'm sorry.	4	interesting search. There is new there is new
5	MS. O'DELL:	5	data.
6	No worries.	6	Q Do you remember where you searched for
7	MR. FROST:	7	the geology of the Italian deposit?
8	Q So you certainly didn't take	8	A It was just Google searches. Putting
9	Dr. Zelikoff's report to draft yours; correct?	9	in Val Chisone or Val Germanasca talc, You you
10	A Certainly not.	10	begin to get lots of hits. And there there
11	Q And the the language in these	11	are a couple of recent papers that are pretty
12	various paragraphs I pointed out weren't provided	12	good.
13	to you by plaintiffs' counsel?	13	Q And I believe I think you cite
14	A No.	14	Mindat.org?
15	Q Okay. And you don't know how they	15	A Yes.
16	ended up in Dr. Zelikoff's report?	16	Q And that's that's the types of
17	A I have no earthly idea.	17	things you were searching through on the
18	Q Okay. Thank you. I'm done with	18	Internet?
19	Dr. Zelikoffs. You can put that to the side.	19	
20	I will say, may as well keep your	20	A Well, Mindat.org is that's sort of
21	As we go through today, I'm sort of		an interesting website. It it originated in
22	going to reference your report.	21	Poland, and the amount of work that's gone into
23	A Sure.	22	that is is unbelievable, because there's only
24	Q So you may as well keep Exhibit 2 close	23	a couple of guys that did this.
	2 50 you may at 110 1100p 2.1111011 2 41000	24	And the value of Mindat.org is that,
	Page 67		Page 69
1	by	1	for many of the localities where they'll
2			
	A Okay.	2	attribute a mineral to, they'll list the
3	•	2 3	attribute a mineral to, they'll list the reference. So it's a darn good place to go find
	Q as we'll be walking through that as	1	attribute a mineral to, they'll list the reference. So it's a darn good place to go find references.
3 4	Q as we'll be walking through that as the day progresses.	3	reference. So it's a darn good place to go find references.
3	<ul><li>Q as we'll be walking through that as the day progresses.</li><li>A Okay.</li></ul>	3 4	reference. So it's a darn good place to go find references.  Q It's a great place to start?
3 4 5	<ul> <li>Q as we'll be walking through that as the day progresses.</li> <li>A Okay.</li> <li>Q And we had already talked about it</li> </ul>	3 4 5	reference. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to
3 4 5 6	<ul><li>Q as we'll be walking through that as the day progresses.</li><li>A Okay.</li></ul>	3 4 5 6	reference. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to start. And — and they've won awards, worldwide
3 4 5 6 7	<ul> <li>Q as we'll be walking through that as the day progresses.</li> <li>A Okay.</li> <li>Q And we had already talked about it before, but it seems like you did is it fair to say that you did investigation of your own</li> </ul>	3 4 5 6 7	reference. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to
3 4 5 6 7 8	Q as we'll be walking through that as the day progresses. A Okay. Q And we had already talked about it before, but it seems like you did is it fair to say that you did investigation of your own library to find some of the reference material	3 4 5 6 7 8	reference. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to start. And — and they've won awards, worldwide awards, for that particular site and the amount of work they've had to put into it.
3 4 5 6 7 8 9	<ul> <li>Q as we'll be walking through that as the day progresses.</li> <li>A Okay.</li> <li>Q And we had already talked about it before, but it seems like you did is it fair to say that you did investigation of your own</li> </ul>	3 4 5 6 7 8	references. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to start. And — and they've won awards, worldwide awards, for that particular site and the amount of work they've had to put into it.  Q And you've already told me nobody
3 4 5 6 7 8 9	Q as we'll be walking through that as the day progresses. A Okay. Q And we had already talked about it before, but it seems like you did is it fair to say that you did investigation of your own library to find some of the reference material you cite in your report? A Yes.	3 4 5 6 7 8 9	references. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to start. And — and they've won awards, worldwide awards, for that particular site and the amount of work they've had to put into it.  Q And you've already told me nobody helped you draft your report. Did anybody help
3 4 5 6 7 8 9 10 11	Q as we'll be walking through that as the day progresses. A Okay. Q And we had already talked about it before, but it seems like you did is it fair to say that you did investigation of your own library to find some of the reference material you cite in your report? A Yes. Q Other than looking through your	3 4 5 6 7 8 9 10 11	references. So it's a darn good place to go find references.  Q It's a great place to start?  A Yeah. It's a really good place to start. And — and they've won awards, worldwide awards, for that particular site and the amount of work they've had to put into it.  Q And you've already told me nobody helped you draft your report. Did anybody help you do the research?
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18 (Pages 66 to 69)

	Page 70		Page 72
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	was lucky enough to get to go on in graduate school at Georgia in geology. And, so, I'm really both. I'm a mining engineer. I'm not a registered engineer. I should have gone ahead and done that, but I didn't. But I am, of course, a registered geologist in in a number of states.  Q I was gonna say, I believe you're registered in Georgia, Florida, and Alabama?  A Right. Those are the the three good ones.  Q All right. And you're not a medical doctor; correct?  A I'm I'm certainly hoping I'm not.  Q Right?  A No, I'm not.  Q And you're not a toxicologist?  A No.  Q And you don't hold a degree in either, you know  Medical doctor is a terrible way, but	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	fines, MSHA fines, I'm probably an expert.  Q Okay. Have you ever done any any research or publication regarding mine regulations?  A In terms of research, yes. But but in a practical sense, I mean, I I have an interest in three operating mines, so so I have to try to stay on top of this.  Q Okay. Have you ever participated in the regulatory process either with, you know, the SEC, JORC, any of the other regulatory agencies?  A No. But I have tried to supply students to the regulatory agencies, and and I have a number that that are are pretty high up. One of mine is very high up in EPA right now. And I am kind of proud of them. I've got three or four that are really doing well.  Q Okay. But you yourself have never A Well Q been part of that process?  Well, they send me consulting work.
22 23 24	you don't hold an M.D. or a degree as a toxicologist; correct?  A No. No.	21 22 23 24	A Well, they send me consulting work.  Q Okay.  A Why do you think I pointed them in that direction?
1	Page 71  And you have no formal training in	1	Page 73 Q Well, sure.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	either what I'll call human medicine or toxicology?  A No.  Q Do you consider yourself a regulatory expert?  A 40 CFR is I mean, I I understand some of it, and I've certainly worked with it.  When when the RCRA law first came out, I was I was into that very deep. And today, probably not, except in very specific areas.  Q Would one of do you consider your yourself an expert in the regulatory process of talc mining or talc ore?  A I'm not sure that that there really is a regulatory issue related to talc mining that that's unique. There are certainly regulations related to that type of mining, and I I'm familiar with them.  Q Okay. Is it just a familiarity, or would you consider yourself an expert in the the regulations regarding that type of mining?  A In that I have had to suffer through	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Other than sending you consulting work, you know, you've never testified before any of the bodies or  A Well Q given any comments A I've testified relative to, you know Yes, I've testified relative to litigation in terms of the mining impact on private properties.  Q Okay. Have you ever testified at any of the hearings regarding regulations or commented on the regulatory process?  A The only one that I formally commented on was the SOAP program, which was called the the Small Operator Assistance Program, that was put in place probably in the late '70s. And it may not even exist anymore. But it was a way that small mining companies could get federal assistance so that they they were able to comply with new environmental regulations. And I actually participated in that.  Q Okay. Have you ever formally commented

	Page 74		Page 76
1	on any regulations regarding, you know, for	1	So, from that standpoint, I have a
2	example, requirements of drilling, requirements	2	pretty good background into the geology of that
3	of sampling and compositing, anything of that	3	type of talc occurrence, keeping in mind that
4	nature?	4	that isn't the only type.
5	MS. O'DELL:	5	Q Uh-huh.
6	To regulatory agencies?	6	A But I have done work for companies that
7	MR. FROST:	7	are exploring for talc.
8	Q To regulatory agencies.	8	In fact, I just recently I I had
9	A Ive had discussions with regulators.	9	to relog some drill core and redo some thin
10	Q But no formal comments?	10 11	sections for a company that that had
11	A No, no.	12	undertaken a talc project as a consultant and
12	Q Have you ever worked with talc before?	13	then they were unable to do it. They they
13	A Yes. O When was that?	14	weren't sure what they were doing.
14 15	Q When was that? A Well, first thing I ever did with talc	15	You know, we I'm sure we'll mention Alice Blount. She she was interested in the
16	was to get money to live on. I sold talc when I	16	talc deposits at Winterboro, Alabama, and I had
17	was to get money to live on. I sold talk when I was between my my graduation date at the	17	drilled them with a a company and had also
18	School of Mines and when I started at Georgia.	18	designed an exploration program for additional
19	There was a company that was trying to	19	talc deposits at Winterboro which were carried
20	buy talc to put into kits that they were selling,	20	out.
21	mineral kits. And, so, they they sent me a	21	But Dr. Blount wanted to look at the
22	list of materials they wanted, and talc was right	22	drill core. And and I was actually the one
23	at the top.	23	that pulled the boxes for her and showed her the
24	So I knew some of the talc locations in	24	intervals that she wanted to show and and
	501-1110		and the same wants to say, and
	Page 75		Page 77
1			
Τ.	Georgia, and so I went and began to pick through	1	would turn my back when she took a sample, that
2	the mine dumps looking for lumps of talc that	1 2	would turn my back when she took a sample, that kind of thing. So
		l .	kind of thing. So Q All right.
2	the mine dumps looking for lumps of talc that	2	kind of thing. So
2	the mine dumps looking for lumps of talc that made it onto the dumps. That was my first experience with talc.  But, since then, it it's gone a long	2 3	kind of thing. So  Q All right.  A So, anyway  And and I've been working working
2 3 4	the mine dumps looking for lumps of talc that made it onto the dumps. That was my first experience with talc.  But, since then, it it's gone a long way. I mean, I'm looking at ultra ultramafic	2 3 4	kind of thing. So  Q All right.  A So, anyway  And and I've been working working on talc projects all along since since I got
2 3 4 5	the mine dumps looking for lumps of talc that made it onto the dumps. That was my first experience with talc.  But, since then, it it's gone a long way. I mean, I'm looking at ultra ultramafic rocks right now in a project that we actually key	2 3 4 5	kind of thing. So  Q All right. A So, anyway And and I've been working working on talc projects all along since since I got out of school.
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	Page 78		Page 80
1	A And, I mean, there's a lot of pages in	1	Q I think I've read that amphiboles make
2	there. I'd have to go through them one by one	2	up a it's a creepy percentage. It's like 10
3	and think back and, you know, "Did I mention	3	or
4	talc?"	4	A I I saw that, and I questioned it.
5	The problem with this is that I've done	5	MS. O'DELL:
6	petrographic work for probably 25 or 30 quarries.	6	Let him finish, Doctor.
7	And and this is done routinely.	7	THE WITNESS:
8	I mean, some of these quarries I've	8	Okay.
9	done the work maybe four or five times because	9	MR. FROST:
10	they do it ann maybe not annually but maybe	10	Q I was gonna say, have you ever read
11	every couple of years, just to make sure that	11	anything about, you know, sort of how abundant
12	their product does not contain asbestos.	12	amphiboles are?
13	Q Uh-huh.	13	MS. O'DELL:
14	A And, so, talc is not that rare of a	14	Object to the form.
15	mineral. And, so, I'm sure that, in some of	15	A Yes.
16	those reports, I'm I'm mentioning, "Yep,	16	MR. FROST:
17	you've got .03 percent talc in your product."	17	Q Okay. Do you agree with me the
18	Q I guess a better way to ask this	18	especially throughout the Eastern United States,
19	question, have you ever published any literature	19	the Appalachian Belt, things like that,
20	that expressly focuses on talc, as opposed to	20	amphiboles are extremely common?
21	just mentioning it within the paper?	21	A They are. They they occur generally
22	MS. O'DELL:	22	in belts of rocks. You know, when when you
23	So solely on talc.	23	see the the number that you're referring to,
24	MR. FROST:	24	I I read that, and I said, "Holy criminy,
21	MIK. FROST.		1 – Fread that, and Fsaid, Flory Criminy,
	Page 79		Page 81
1	Q Yes, solely on talc or where talc is	1	this this just can't be right."
2	one of the main it wouldn't be solely, but,	2	But, then, if if you begin to think
3	you know, where talc is the main focus of the	3	about the shallow crust, a great a large
4	paper or the research.		
	paper of the research.	4	percent of it is really oceanic crust. And
5	A I'm gonna say no, but but maybe I	4 5	
5 6	<u> </u>		percent of it is really oceanic crust. And
	A I'm gonna say no, but but maybe I might think of one or two	5	percent of it is really oceanic crust. And amphiboles and related mafic minerals are very
6	A I'm gonna say no, but but maybe I	5 6	percent of it is really oceanic crust. And amphiboles and related mafic minerals are very common in the oceanic crust. And, of course,
6 7	A I'm gonna say no, but but maybe I might think of one or two Q Okay. A as we as we go along.	5 6 7	percent of it is really oceanic crust. And amphiboles and related mafic minerals are very common in the oceanic crust. And, of course, that underlies the continents, so  Q Have you ever done any testing of talc?
6 7 8 9	A I'm gonna say no, but but maybe I might think of one or two Q Okay. A as we as we go along. Q If you do, let me know.	5 6 7 8	percent of it is really oceanic crust. And amphiboles and related mafic minerals are very common in the oceanic crust. And, of course, that underlies the continents, so
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6 7 8 9 10 11	<ul> <li>A Im gonna say no, but but maybe I might think of one or two</li> <li>Q Okay.</li> <li>A as we as we go along.</li> <li>Q If you do, let me know.  Have you ever published anything regarding amphiboles directly?</li> <li>A Yeah. The the same story is true</li> </ul>	5 6 7 8 9 10 11	percent of it is really oceanic crust. And amphiboles and related mafic minerals are very common in the oceanic crust. And, of course, that underlies the continents, so  Q Have you ever done any testing of talc? A In terms of, like, brightness, density, no. Q Okay. A I I've certainly described talc,
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	Page 82		Page 84
1	MR. FROST:	1	study for about six or eight of their quarries.
2	Q And by "x-ray," are you talking about	2	But they were you know, they were concerned,
3	XRF or XRD?	3	like everybody is, is quarrying something out of
4	A XRD.	4	the ground that that, you know, when you're
5	Q And was this related to academics, or	5	producing a couple million tons a year out of a
6	was this related to the work you were doing with	6	single hole in the ground in hard rock that's of
7	some of the mining companies?	7	a metamorphic grade that might have asbestos
8	A Academics.	8	minerals, you want to know whether or not you've
9	Q And was this for mineral identification	9	got something.
10	purposes?	10	Q Okay.
11	A Mainly.	11	A And, so, I did the work for Oldcastle,
12	Q Did you ever publish any of your	12	and they have a whole series of reports that I
13	mineral identification XRD work on either talc or	13	did for them that that outline the absence of
14	amphiboles?	14	asbestos.
15	A A lot of it is published but without	15	Q Okay. And Oldcastle, I looked them up.
16	reference to the analytical technique.	16	I believe they're a gravel quarry? Is that is
17	I mean, I when you're when you're	17	that fair?
18	writing a paper, you can't describe how you	18	A No.
19	identified every single mineral grain in every	19	Q Okay.
20	single sample. I mean, it's just impossible.	20	A They're one of the largest construction
21	But it was very common to to run	21	materials company in the world. They own the
22	confirmatory x-ray diffraction analyses on	22	Bank of Scotland. That's where the word
23	samples that we thought we knew what we had.	23	Oldcastle comes from. They're a Scottish
24	"Let's let's check and make sure."	24	company
	zets fets eleck tild make stre.		company
	Page 83		Page 85
1		1	
1 2	Q Do you consider yourself an expert in	1 2	Q Okay.
2	Q Do you consider yourself an expert in XRD?		Q Okay. A that operate in the US under a lot
	Q Do you consider yourself an expert in XRD? A I would say that I used to be. I could	2	Q Okay. A that operate in the US under a lot of different names. But but the man I did
2 3	<ul> <li>Q Do you consider yourself an expert in XRD?</li> <li>A I would say that I used to be. I could just about make a diffractometer jump up and</li> </ul>	2 3	Q Okay. A that operate in the US under a lot
2 3 4	Q Do you consider yourself an expert in XRD?  A I would say that I used to be. I could just about make a diffractometer jump up and dance. Not not anymore. There's a whole new	2 3 4	Q Okay. A that operate in the US under a lot of different names. But but the man I did this for was David Toolan, who's their general counsel in Atlanta. And so I used the word
2 3 4 5	Q Do you consider yourself an expert in XRD?  A I would say that I used to be. I could just about make a diffractometer jump up and dance. Not not anymore. There's a whole new generation of machines out there that are that	2 3 4 5	Q Okay.  A that operate in the US under a lot of different names. But but the man I did this for was David Toolan, who's their general
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Do you consider yourself an expert in XRD?  A I would say that I used to be. I could just about make a diffractometer jump up and dance. Not not anymore. There's a whole new generation of machines out there that are that are can do things that I never thought would ever be done.  Q And it's just not something you haven't kept up with the technology or the research?  A No. Actually, they sold my I had a I had my own x-ray machine, and the university sold it when I retired because nobody knew how to run it. I'm serious. I they should have never done that.  Q All right. Have you ever done have you ever published anything regarding asbestos?  A Same same story. You know, in in the two state mineralogies, there's lots of information I published on asbestos. And I've	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Okay. A — that operate in the US under a lot of different names. But — but the man I did this for was David Toolan, who's their general counsel in Atlanta. And so I used the word "Oldcastle" because he's the Oldcastle general counsel. Q What type of ores were you looking at when you were doing these reviews? A What was that? Q What type of ores were you looking at when you were doing these reviews? A Everything they had was being sold for aggregate for one use or another. You know, there are different uses for aggregate. Q Uh-huh. A And, so, each one of the quarries was a quarry that — that was crushing and sizing stone for either a concrete market, a surface materials market. A lot of material gets — gets sold to

22 (Pages 82 to 85)

	Page 86		Page 88
1	if it's asphalt in Florida, it's coming out of	1	Q And you've never published anything
2	Georgia or Alabama.	2	regarding talcum powder specifically; correct?
3	Q Okay. So	3	A No.
4	A And that's — that's the type of stuff.	4	And did you have any opinions
5	Q All right. I apologize. I used the		regarding, you know, talcum powder and the
6	word "gravel." I'm guessing gravel is probably	6	potential of asbestos or heavy metals in talcum
7	not	7	powder prior to being engaged in this litigation?
8	A No.	5 6 7 8	MS. O'DELL:
9	Q — the right mining term.	9	Object to the form.
10	A I'm very upset with that.	10	A No.
11	Q But I think we're talking about the	11	MR. FROST:
12	same thing.	12	Q Okay.
13	A Yeah.	13	All right. That's a good place to take
14	Q So aggregate seems to be the correct	14	a break.
15	term.	15	VIDEOGRAPHER:
16	A Aggregate.	16	Going off the record. The time is
17	Q And I apologize.	17	10:06 a.m.
18	And it seems like your job was to	18	(OFF THE RECORD.)
19	determine locate asbestos within that ore, or	19	VIDEOGRAPHER:
20	the absence of it?	20	We're back on the record. The time is
21	A Well, it was it was a little bit	21	10:25 a.m.
22	more than that. They had — I had to go and	22	MR. FROST:
23	sample their stockpiles and select samples from	23	Q All right. Let's turn to page 2 of
24	the stockpiles to	24	your report. And under the section "Summary of
2 1	the stockpries to		your report. And under the section. Summary of
	Page 87		Page 89
		1	
1	I use a lab in Salt Lake City or in	1	Opinions," you've set forth seven opinions. Does
1 2	I use a lab in Salt Lake City or in Lindon, Utah, which is south of Salt Lake, to	2	
	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so	1	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.
2	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section	2	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.  Q Will you agree with me that, you know,
2 3	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section analysis for each sample. And I would count more	2	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.
2 3 4	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section	2 3 4	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.  Q Will you agree with me that, you know,
2 3 4 5	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section analysis for each sample. And I would count more	2 3 4 5	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.  Q Will you agree with me that, you know, these are the opinions these are the ultimate
2 3 4 5 6	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section analysis for each sample. And I would count more or less a thousand grains in each thin section	2 3 4 5 6	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.  Q Will you agree with me that, you know, these are the opinions these are the ultimate conclusions and the opinions that are supported
2 3 4 5 6 7	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section analysis for each sample. And I would count more or less a thousand grains in each thin section and and report on the mineral composition of	2 3 4 5 6 7	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.  Q Will you agree with me that, you know, these are the opinions these are the ultimate conclusions and the opinions that are supported by your report?
2 3 4 5 6 7 8	Lindon, Utah, which is south of Salt Lake, to make my my my thin sections. And, so and then I would do complete thin section analysis for each sample. And I would count more or less a thousand grains in each thin section and and report on the mineral composition of their rock.	2 3 4 5 6 7 8	Opinions," you've set forth seven opinions. Does that sound right?  A Yes.  Q Will you agree with me that, you know, these are the opinions these are the ultimate conclusions and the opinions that are supported by your report?  A Yes.
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	Page 90		Page 92
1	redundant question of some sort, because what is	1	MR. FROST:
2	in the ore is in the in the in the deposit	2	Q Okay.
3	as a whole, unless you want to refine that a	3	A In
4	little bit.	4	Q And, so, what I want to get at
5	MR. FROST:	5	MS. O'DELL:
6	Q I was gonna say, are you looking at	6	Let him finish.
7	deposit more are you looking at deposit as	7	Were you finished, Dr. Cook?
8	only the ore, or are you looking at deposit as	8	A Well, I was gonna gonna just finish
9	the entirety of	9	with one more sentence.
10	I'll I'll strike that.	10	MR. FROST:
11	You agree with me what is the the	11	Q Sure. Go ahead.
12	mineable deposit is different than the entirety	12	A In in the ore deposit itself, the
13	of the deposit when you're talking about talc;	13	talc ore, of course, is gonna be different from
14	correct?	14	the serpentinite from which it was derived.
15	A Yeah. Yes and no. Don't I I	15	I mean, serpentinite and talc are not
16	object to the use of the word "deposit."	16	the same thing, so, of course they're different.
17	"Deposit," to an economic geologist, means the	17	Q Would you agree with me that, within
18	the occurrence of the ore.	18	the talc deposit, you can have areas of the talc
19	Q Okay.	19	that are less pure than other areas of the
20	A And so so you're what I think	20	deposit, say closer to or further from the the
21	what you're saying is that the serpentinite as a	21	edges of the deposit?
22	what you're saying is that the serpendinte as a whole may be mineralogically at variance with the	22	A Sure.
23		23	Q And you'd agree with me that not the
24	ore deposit itself.	24	not all of that talc will end up getting mined
24	Is that what you're asking?		
	Page 91		Page 93
1	Page 91  Q That's correct. That's what I'm	1	Page 93 and used as the ultimate ore; correct?
1 2		1 2	
	Q That's correct. That's what I'm talking to. You can have when you look at a I	l	and used as the ultimate ore; correct?
2	Q That's correct. That's what I'm talking to. You can have when you look at a I was talking about deposit in more of a global	2	and used as the ultimate ore; correct?  MS. O'DELL:  Object to the form.  A That may or may not occur. There are
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	Page 94		Page 96
1	A I I think that that's that's a	1	know, that it's been determined to have similar
2	fair statement. But you might also say you	2 3 4 5 6	health effects as asbestos, and you quote two
3	wouldn't use the entire deposit to make -325 mesh	3	IARC papers.
4	talc to put in paint. I mean, it you know,	4	A Yes.
5	you could say that with respect to a lot of the	5	And I think we've we've already
6	products.	6	determined you're not an expert. You know,
7	MR. FROST:	7	you're not a doctor. You're not a toxicologist.
8	Q Sure.	8	A No.
9	So that's what I'm getting at is it's	9	Q And are you aware, sitting here today,
10	not necessarily the entire deposit that is of	10	of any scientific studies that have determined
11	concern. It's really which part of that deposit	11	fibrous talc to be a human carcinogen?
12	ends up becoming the talc ore. Correct?	12	A I'm aware that IARC says it is.
13	A Correct.	13	Q Okay. And, other than IARC, can you
14	MS. O'DELL:	14	cite to me any other studies that show that
		15	fibrous talc is a human carcinogen?
15	Object to the form. MR. FROST:	16	A I cannot. But I'd like to say that
16		17	IARC wouldn't have considered it carcinogenic if
17	Q Okay.	18	there weren't studies that supported that
18	MS. O'DELL:	19	conclusion.
19	Give me just a second.	20	Q And you're not here to, you know, opine
20	THE WITNESS:	21	what may or may not cause human disease; right?
21	Yeah. Sorry about that.	22	A No, absolutely not.
22	MR. FROST:	23	Q And do you consider yourself to be an
23	Q And the first opinion relates to the	24	expert in reading, you know, IARC and
24	alteration of serpentinites. That, for purposes	24	expert in reading, you know, rake and
	Page 95		Page 97
1	of this case, only relates to Vermont; right?	1	interpreting IARC monographs?
2			interpreting if the monographs.
_	A Let me see the way I've worded that	2	A No.
3	A Let me see the way I've worded that again.	2	
	again.		A No.
3	again.  For purposes of this case, yeah.	3	<ul><li>A No.</li><li>Q Okay. And you agree with me that the</li></ul>
3 4	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in	3 4	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand
3 4 5	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?	3 4 5	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL:
3 4 5 6	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.	3 4 5 6	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct?
3 4 5 6 7 8	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is	3 4 5 6 7	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that
3 4 5 6 7 8 9	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous	3 4 5 6 7 8	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in
3 4 5 6 7 8 9	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —	3 4 5 6 7 8	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on
3 4 5 6 7 8 9 10	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc — A Right.	3 4 5 6 7 8 9	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis
3 4 5 6 7 8 9 10 11	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state	3 4 5 6 7 8 9 10	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might
3 4 5 6 7 8 9 10 11 12 13	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for	3 4 5 6 7 8 9 10 11 12	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does
3 4 5 6 7 8 9 10 11 12 13	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are	3 4 5 6 7 8 9 10 11 12 13 14	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one
3 4 5 6 7 8 9 10 11 12 13 14	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."	3 4 5 6 7 8 9 10 11 12 13 14	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results
3 4 5 6 7 8 9 10 11 12 13 14 15 16	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.	3 4 5 6 7 8 9 10 11 12 13 14 15	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.  Q Okay. And you repeat this on page 9 of	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research. Q You
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.  Q Okay. And you repeat this on page 9 of your report.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research. Q You A And, so, from that standpoint, maybe
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.  Q Okay. And you repeat this on page 9 of your report.  A Okay.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research. Q You A And, so, from that standpoint, maybe the IARC documents are in a way a research paper.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.  Q Okay. And you repeat this on page 9 of your report.  A Okay.  Q It appears to be — it's the last	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research. Q You A And, so, from that standpoint, maybe the IARC documents are in a way a research paper. Q Well, you agree with me they're not
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.  Q Okay. And you repeat this on page 9 of your report.  A Okay.  Q It appears to be — it's the last sentence. Is it the last sentence? Sorry. It's	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research. Q You A And, so, from that standpoint, maybe the IARC documents are in a way a research paper. Q Well, you agree with me they're not doing any independent lab work?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	again.  For purposes of this case, yeah.  Q Okay. You'll agree with me that in China and Italy are derivations of carbonates?  A That's what I'd say, yes.  Q Looking at the second opinion, which is B, the one that states — talks about fibrous talc —  A Right.  Q — at the very end of that you state that, "Fibrous talc fulfills the requirements for inclusion with asbestiform minerals which are known to be human carcinogens."  A Correct.  Q Okay. And you repeat this on page 9 of your report.  A Okay.  Q It appears to be — it's the last	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A No. Q Okay. And you agree with me that the IARC monographs themselves aren't firsthand research papers; correct? MS. O'DELL: Object to the form. A I think that there are people that would consider some of them research papers in that it is they are drawing conclusions based on research into the literature with a hypothesis that fibrous talc does cause cancer or they might use an alternate hypothesis, fibrous talc does not cause cancer. And then to support either one of those opinions, they're looking at the results of research. Q You A And, so, from that standpoint, maybe the IARC documents are in a way a research paper. Q Well, you agree with me they're not

25 (Pages 94 to 97)

	Page 98		Page 100
1	A I don't think so.	1	A No.
2	Q Okay.	2	Q Do you intend to publish your opinions
3	A Let me back up. I don't know what	3	in this case?
4	their budgeting is. There are organizations like	4	A No.
5	this that make grants for the study of things	5	Q Is there a particular reason why you
6	that they're interested in gathering data on.	6	you do or don't intend to publish them?
7	The World Health Organization as a whole I think	7	A I don't think it's a I don't think
8	does. National Institute of Health does here in	8	it's a good practice to do this. I know people
9	the US. They're a very, very robust ranking	9	that do, and they're not looked upon well by
10	agency.	10	their peers. I don't think it's good to publish
11	Q Okay. With respect to the IARC	11	data that's generated in litigation.
12	monographs, you'd agree with me that they're	12	Q And it's
13	reviewing work done by other scientists and	13	A That's my personal opinion.
14	drawing conclusions based on them?	14	Q No. That's a fair opinion.
15		15	So you believe there's a difference
		16	between litigation-derived, you know, research
16	Q And other than what the conclusions	17	and opinions versus academic-derived research
17	that IARC has drawn, you can't point me to any	18	MS. O'DELL:
18	peer-reviewed studies that support their	19	Object to the form.
19	research?	20	MR. FROST:
20	A No. I'm I'm sure they're listed in	21	Q research and opinions?
21	the monographs.	22	MS. O'DELL:
22	Q And you'd also agree with me that IARC	23	I'm sorry.
23	does not conclude that there's any link between	24	MR. FROST:
24	fibrous talc and ovarian cancer; correct?	24	MR. PROST.
	Page 99		Page 101
1	MS. O'DELL:	1	I didn't I didn't think you were
2	Object to the form.	2	being rude in talking over me.
3	A I don't know the answer to that.	3	MS. O'DELL:
4	MR. FROST:	4	Yes. Yeah. I was just trying to get
5	Q That's fine. "I don't know" is a	5	my objection in.
6	perfectly acceptable answer.	6	Objection.
7	A Yeah. I I think that they that	7	A I'm not saying that there's a
8	ovarian cancer is mentioned. But in the actual	8	difference. I think that it has to do with
9	statement that it's a group 1 member, they	9	motivation behind research, has to do with who's
	~ · ·	10	paying for it. I think it's more of a
10	probably don't mention ovarian cancer per se.	1	
10 11	- · ·	11	philosophical issue with me than anything else.
		1	philosophical issue with me than anything else. MR. FROST:
11	Q Okay. And	11	· · ·
11 12	Q Okay. And A But but they might. I don't know that.	11 12	MR. FROST:
11 12 13	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on	11 12 13	MR. FROST: Q Did you certainly A I've been involved with litigation
11 12 13	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me	11 12 13 14	MR. FROST: Q Did you certainly
11 12 13 14 15	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not	11 12 13 14 15	MR. FROST: Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I
11 12 13 14 15 16	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not be associated with?	11 12 13 14 15 16	MR. FROST: Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I obtained during a litigation research project,
11 12 13 14 15 16 17 18	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not be associated with? A No. No.	11 12 13 14 15 16 17 18	MR. FROST:  Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I obtained during a litigation research project, let's say.
11 12 13 14 15 16 17 18 19	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not be associated with? A No. No. Q Other than the seven opinions that we	11 12 13 14 15 16 17 18 19	MR. FROST:  Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I obtained during a litigation research project, let's say.  Q Okay. You'd agree with me that's
11 12 13 14 15 16 17 18 19 20	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not be associated with? A No. No. Q Other than the seven opinions that we have put forth here on pages 2 and 3 of your	11 12 13 14 15 16 17 18 19 20	MR. FROST:  Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I obtained during a litigation research project, let's say.  Q Okay. You'd agree with me that's because there are issues with potential bias
11 12 13 14 15 16 17 18 19 20 21	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not be associated with? A No. No. Q Other than the seven opinions that we have put forth here on pages 2 and 3 of your report, do you have any other opinions that you	11 12 13 14 15 16 17 18 19 20 21	MR. FROST:  Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I obtained during a litigation research project, let's say.  Q Okay. You'd agree with me that's because there are issues with potential bias issues
11 12 13 14 15 16 17 18 19 20	Q Okay. And A But but they might. I don't know that. Q All right. And you're not an expert on the subject, so you can't sit here and tell me what types of cancer fibers talc may or may not be associated with? A No. No. Q Other than the seven opinions that we have put forth here on pages 2 and 3 of your	11 12 13 14 15 16 17 18 19 20	MR. FROST:  Q Did you certainly A I've been involved with litigation since probably the mid-1970s, and I've never thought about publishing the results that I obtained during a litigation research project, let's say.  Q Okay. You'd agree with me that's because there are issues with potential bias

26 (Pages 98 to 101)

	Page 102		Page 104
1	MS. O'DELL:	1	So what are the characteristics that
2	Excuse me. Give me a chance.	2	these minerals have to have to be called
3	A Sorry.	3	asbestos? Well, fibrous. They've got to have an
4	MS. O'DELL:	4	aspect ratio of some people want to say as low
5	Object to the form.	5	as 3-to-1. I don't agree with that. 5-to-1 is
6	I don't think there's a question	6	what most people, I think, would use today.
7	pending, Doctor.	7	They occur in groups of parallel
8	MR. FROST:	8	fibers. Can be you can call them bundles.
9	Q Yeah. I was going to say, did you	9	Bundles can show if you look at the end of a
10	answer?	10	bundle, you can see that they that there is
11	The second part of the question, so	11	they are composed of more than one particle. You
12	you the second part of the question is, you	12	can begin to see a spray at the end of a bundle.
13	know, one of the issues would be conflict of	13	These things are they're flexible.
14	interest disclosures, sources of funding, things	14	In other words, you can bend them without
15	like that would all, you know, go into the	15	breaking, for the most part, although that's a
16	decision as to whether or not, you know, you	16	little bit questionable because the the
17	would decide to publish?	17	tendency to break perpendicular to the length in
18	MS. O'DELL:	18	amphiboles is different from in chrysotile.
19	Object to the form.	19	So there can be a little bit of a difference
20	A The conflict of interest is is a	20	there.
21	really important topic. And and I agree that	21	The tensile strength is usually pretty
22	would be one of the reasons not to.	22	high.
23	MR. FROST:	23	Q Okay.
24	Q Okay. Turn to page 4 of your report.	24	A Resistance to electricity, resistance
	Page 103		
1	At the beginning of the second paragraph you note	1	to heat. I think that they need to be larger
2	that talc deposits can attain can contain	2	than 5 microns in length to be of significance.
3	asbestos.	3	So what we're really talking about are
4	A Uh-huh.	4	fibers, minerals that occur in fibers that have
5	Q How do you define asbestos? A Well, fibrous mineral that is I'm	5	to belong to generally that group of minerals
6	*	6	that were originally described.
7 8	trying to decide how to describe mineralogically	7 8	Q And do you recall what the five
9	what they are, because the original six	9	amphibole minerals were?
10	chrysotile and then the five amphiboles that are mentioned, the five amphiboles, some of them are	10	A Well, the problem with this is that some of them are called minerals and they're
11	not even minerals anymore. And, so, somebody	11	actually trade names.
12	somewhere has got to go in and actually redefine	12	Q Okay.
13	asbestos mineralogically.	13	A Like amosite is not a mineral at all.
14	For example, anthophyllite is actually	14	You know, that's gonna be grunerite, for the most
15	a solid solution series with anthophyllite at one	15	part.
16	end and ferro-anthophyllite at the other. But	16	Crocidolite is actually a sodium
17	ferro-anthophyllite is a mineral that forms	17	amphibole called riebeckite. And so there's
•	asbestos, and yet it's not mentioned in the	18	actinolite, tremolite, then those two and
18	original definition of asbestos. They just say	19	anthophyllite.
18 19			÷ •
19		20	() Okay. And are you familiar with the
	anthophyllite.	20 21	Q Okay. And are you familiar with the term "asbestiform"?
19 20	anthophyllite.  And, so, traditionally you've got	20 21 22	term "asbestiform"?
19 20 21	anthophyllite.	21	- · · · · · · · · · · · · · · · · · · ·

	Page 106		Page 108
1	Q Could you describe for me or can you	1	Doctor?
2	define for me what asbestiform means?	2	THE WITNESS:
3	A We sort of talked about it in the	3	Yeah, I think so.
4	definition of asbestos. But asbestiform, again,	4	MR. FROST:
5		5	
6	is related to a fibrous nature. And, from my	6	Q And with respect to the five
7	perspective, I've looked at a lot of asbestos in	7	amphiboles, you'd agree with me it's the
8	rock samples.	8	asbestiform or the fibrous variant that's defined
	Now, granted, the what you see in a		as, quote, asbestos, closed quote; correct? MS. O'DELL:
9 10	rock sample is gonna be coarse-grained asbestos.	9	
	And, so, if you see a little band of asbestos,	1	Object to the form.
11	generally the fibers will be perpendicular to the	11	A I'm sorry, Jack. Can you ask that
12	edges of that band, and if it if it's	12	MR. FROST:
13	asbestos, the chances are you can rub your	13	Sure.
14	fingernail across it and actually dislodge	14	Q And you'd agree with me, with respect
15	dislodge fibers. There are minerals that form	15	to the five amphiboles, it's the fibrous or
16	the same type of a band that you can't.	16	asbestiform version of those amphiboles that is
17	Q Uh-huh.	17	defined as, quote, asbestos, closed quote?
18	A And they will not dislodge. And	18	MS. O'DELL:
19	usually that won't be that won't be asbestos.	19	Object to the form.
20	But the two may look asbestiform. So the real	20	A That is correct. But there is some
21	question is can you have an asbestiform mineral	21	the literature is inconsistent in that regard.
22	that is not asbestos? And the answer is yes.	22	There should if you've got if you've got
23	Q Okay.	23	actinolite asbestos, it should always say
24	VIDEOGRAPHER:	24	actinolite asbestos
	Page 107		Page 109
1	Can I go off the record really quickly?	1	MR. FROST:
2	MR. FROST:	2	Q Okay.
			Q 01).
3	Sure.	3	A or fibrous actinolite. There
3 4	Sure. VIDEOGRAPHER:		
4		3	A or fibrous actinolite. There
	VIDEOGRAPHER: The time is 10:42 a.m.	3 4	A or fibrous actinolite. There should there should be a modifier if you're
4 5	VIDEOGRAPHER:	3 4 5	A or fibrous actinolite. There should there should be a modifier if you're going to to go from the mineral species by
4 5 6	VIDEOGRAPHER: The time is 10:42 a.m. (OFF THE RECORD.)	3 4 5 6	A or fibrous actinolite. There should there should be a modifier if you're going to to go from the mineral species by itself into the realm of asbestos.  Q And that's sort of the question I was
4 5 6 7	VIDEOGRAPHER: The time is 10:42 a.m. (OFF THE RECORD.) VIDEOGRAPHER:	3 4 5 6 7	A or fibrous actinolite. There should there should be a modifier if you're going to to go from the mineral species by itself into the realm of asbestos.
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28 (Pages 106 to 109)

	Page 110		Page 112
1	A Correct. It is.	1	Well
2	Q Okay. Can you please explain to me	2	Q So how would you go about determining
3	what a cleavage fragment is?	3	whether a population of particles are cleavage
4	A A cleavage fragment, according to the	4	fragments versus asbestiform fibers?
5	American Geological Institute, their definition	5	MS. O'DELL:
6	is wrong, and I can tell you why. But their	6	Object to the form.
7	definition is that it's a crystal particle that	7	A I I would hit it with the polarizing
8	is bounded by cleavage surfaces. And since not	8	microscope first so because that allows you to
9	all crystals have three directions of cleavage	9	look at a lot of a lot of grains.
10	that would give you cleavage on every side, that	10	You know, one of the problems with this
11	can't be right.	11	is that as you as you look at finer and finer
12	But, in essence, it's a a broken	12	grain material, your ability to look at large
13	crystal fragment that is bounded at least	13	numbers of grains diminishes. I like to pop a
14	partially by planes of breakage rather than	14	sample, ground it up not too fine but grind it
15	crystallization.	15	up, put it in an immersion oil and put it under a
16	Q Would you agree with me that the	16	petrographic microscope and see what I see.
17	difference between a cleavage fragment and an	17	I would also like to have a thin
18	asbestiform fiber is the habit in which it grew,	18	section of that same sample, because sometimes in
19	the way in which it developed?	19	a thin section you can see that there is no
20	MS. ODELL:	20	asbestiform thing there at all, and yet you may
21	Object to the form.	21	end up with a suspect sample. On the other hand,
22	A Let me answer that this way. The	22	just the opposite can happen.
23	answer is yes and no. It's possible to have an	23	So I think that the idea is that you've
24	amphibole that is truly an asbestos fiber. And	24	got to start large and and work down if
	D 111		
	Page 111		Page 113
1		1	
1 2	because of the cleavage in amphiboles, you can	1 2	Page 113 it's if it's required. MR. FROST:
	because of the cleavage in amphiboles, you can take that original asbestos fiber and break it up		it's if it's required. MR. FROST:
2	because of the cleavage in amphiboles, you can	2	it's if it's required. MR. FROST:
2	because of the cleavage in amphiboles, you can take that original asbestos fiber and break it up into a cleavage fragment. And, so, therein is	2 3	it's if it's required.  MR. FROST:  Q Okay. Is a good way to summarize that
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2 3 4 5	because of the cleavage in amphiboles, you can take that original asbestos fiber and break it up into a cleavage fragment. And, so, therein is the problem.  You can certainly have cleavage fragments that were derived from a large single crystal that are prismatic, they look like	2 3 4 5	it's if it's required.  MR. FROST:  Q Okay. Is a good way to summarize that that you have to look at the population of particles as a whole? You can't just necessarily
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	Page 114		Page 116
1	Q So you can't just look at one EMP and	1	it would have a tendency to break. But, still,
2	make a determination as to whether or not that's	2	it's not hard to find amphibole grains that are
3	asbestos?	3	bent. And when they are, then, you know, then
4	MS. O'DELL:	4	you're beginning to satisfy the definition.
5	Object to the form.	5	Q If I were to show you pictures of, you
6	A One particle? You might be able to.	6	know, sort of isolated particles under TEM, is
7	Depends on the particle.	7	that the kind of thing that you could look at and
8	MR. FROST:	8	go, yeah, that's cleavage fragment; yeah, that's
9	Q And what types of things would you have	9	asbestos?
10	to look for in that particular particle?	10	A Sometimes.
11	A Well, are we talking about amphibole or	11	Q Sometimes?
12	chrysotile?	12	A Sure. Sometimes, yes; sometimes, no.
13	Q I was going to say, I understand	13	Q Is that something that you routinely do
14	amphibole is different because amphibole has a	14	in your job?
15	lot of its own characteristics.	15	A No.
16 17	A All right.	16	Q No.
	Q Let me rephrase my question. We'll	17	Okay. Is it something that you have
18 19	let's focus on the amphiboles, because I think that's a little more difficult.	18 19	any experience with doing? MS. O'DELL:
20	A Yeah. It is. Yeah, the amphiboles are	20	Are you talking about TEM?
21		21	MR. FROST:
22	tough.  And your question had to do with an	22	Q TEM or SEM images.
23	elongated particle, is it asbestiform or not?	23	A I mean, I've looked at some. But
24	Q That's correct.	24	that's not that's not part and parcel of what
21	Q mais correct.		that's not part and parcer of what
	Page 115		Page 117
1	A The I'm not sure that without seeing	1	I normally do.
2	the sample from which the particle came that you	2	Q Okay. You're not an expert in
3	can make a real good call there unless you you	3	reviewing TEM or SEM images?
4	have an entire particle. Now, some of these	4	A I wouldn't think I was.
5	particles will not be broken at the ends and you	5	Q Do you have any opinion as to whether
6	can actually see the termination of the grain.	6	or not surface chemistries of asbestiform or
7	If it is non-asbestiform, the	7	non and non-asbestiform particles are
8	termination will normally be a single oblique	8	different?
9	plane to the direction of elongation.	9	A Surface chemistry?
10	If it's if it's an asbestiform	10	Q Yes.
11	fragment, sometimes these fragments taper to a	11	A I'm not sure I understand how the
12	point. And that's pretty much of a giveaway that	12	surface chemistry's gonna be greatly different
13	you're looking at a single crystallized fiber.	13	from the chemistry through the grain.
14	Another thing you might do is see	14	Q Okay. So that's that's not
15 16	whether your population has bent fibers in it.	15	something you have an opinion about, about
16 17	Okay? Many times that's a dead giveaway.	16 17	surface chemistry?  A I think that I'm not sure I'm not
	Q That has to go with I think you	18	
	flexibility or tensile strength are some of the	19	sure what you're really asking.  The if you're gonna do, like, EDAX,
18	and a star years had listed a online?	1 19	
18 19	aspects you had listed earlier?	20	
18 19 20	A Right.	20	how far into the grain do you think you're really
18 19 20 21	A Right. And with amphiboles, you have to be	21	analyzing? Is that what you're talking about
18 19 20 21 22	A Right.  And with amphiboles, you have to be careful because there is a cleavage plane	21 22	analyzing? Is that what you're talking about when you say "surface"? Because you may not be
18 19 20 21	A Right. And with amphiboles, you have to be	21	analyzing? Is that what you're talking about

	Page 118		Page 120
1	on on a lot of these techniques. You're	1	MR. FROST:
2	you're the penetrating power may not be that	2	Q So you'd agree with me that if you're
3	great.	3	looking at a small population of fibers or you're
4	But I don't think that I don't think	4	looking at well, not fibers, but if you're
5	that I would be greatly concerned about surface	5	looking at a small population of particles or
6	chemistry versus chemistry five five or six	6	looking at a single particle, a lot of times the
7	microns into a grain. I'm not sure there should	7	call as to whether or not it's cleavage or,
8	be any big difference unless you're there's a	8	you know, prismatic versus asbestiform fiber
9	coating of some sort that that maybe is,	9	is is subjective unless you have a larger
10	you know, has been applied.	10	population to review?
11	You know, you have to to coat some	11	MS. O'DELL:
12	of these samples, anyway, if you're if you're	12	Excuse me. Object to the form.
13	doing SEM work.	13	A It can be. I think that that it's
14	So, I mean, you know, you get carbon.	14	necessary to begin to go back and look at the
15	In fact, I'm sure that you've looked at a lot of	15	original definitions and begin to try to apply
16	these analyses. And if you look at the analyses,	16	them to that particular grain.
17	you'll see that they'll have silica. They'll	17	MR. FROST:
18	mark it, and they'll mark it SI. And they'll	18	Q Uh-huh.
19	have magnesium, and they'll mark it MG. And then	19	A And and sometimes it's possible.
20	about here, there'll be iron. And then just	20	Sometimes it may not be. And that's why it's
21	beyond iron, there'll be a strong peak. And they	21	important to look at many, many, many, many, many
22	· · · · · · · · · · · · · · · · · · ·	22	samples, many grains.
	never identify it, and yet it's there. It's part	23	
23	of their analysis. You know what it is? Copper.		Q Okay. And I take it you have no
24	That's the copper peak from the sample. So they	24	opinion regarding the potential health risks
	Page 119		Page 121
1	just ignore that.	1	associated with a cleavage fragment versus an
1 2	just ignore that.  And, so so you have to you have	1 2	
	just ignore that.  And, so so you have to you have to really take a look at the technique that's		associated with a cleavage fragment versus an
2	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface	2 3 4	associated with a cleavage fragment versus an asbestiform
2	just ignore that.  And, so so you have to you have to really take a look at the technique that's	2 3	associated with a cleavage fragment versus an asbestiform A No.
2 3 4	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to	2 3 4	associated with a cleavage fragment versus an asbestiform A No. Q mineral? A No. Q Turn to page still on 4 of your
2 3 4 5	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.	2 3 4 5	associated with a cleavage fragment versus an asbestiform A No. Q mineral? A No.
2 3 4 5 6	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to	2 3 4 5 6	associated with a cleavage fragment versus an asbestiform A No. Q mineral? A No. Q Turn to page still on 4 of your
2 3 4 5 6 7	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to whether or not I'll call it the cleavage	2 3 4 5 6 7	associated with a cleavage fragment versus an asbestiform A No. Q mineral? A No. Q Turn to page still on 4 of your report. It's the the remainder of that
2 3 4 5 6 7 8	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to whether or not I'll call it the cleavage fragments versus asbestiform fibers have	2 3 4 5 6 7 8	associated with a cleavage fragment versus an asbestiform A No. Q mineral? A No. Q Turn to page still on 4 of your report. It's the the remainder of that sentence, "Talc deposits can contain asbestos,
2 3 4 5 6 7 8	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to whether or not I'll call it the cleavage fragments versus asbestiform fibers have different surface features and different surface	2 3 4 5 6 7 8	associated with a cleavage fragment versus an asbestiform A No. Q mineral? A No. Q Turn to page still on 4 of your report. It's the the remainder of that sentence, "Talc deposits can contain asbestos, asbestiform minerals, or minerals containing
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to whether or not I'll call it the cleavage fragments versus asbestiform fibers have different surface features and different surface identifiable markers?  MS. O'DELL:  Object to form.  A I think that that it's possible to identify cleavage surfaces under some situations, because they don't have to be perfectly planar. You can have steps where where the cleavage fragment is actually peeling away from the adjacent fragment that results when the two separate.  The problem with this is that that can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	associated with a cleavage fragment versus an asbestiform  A No.  Q mineral?  A No.  Q Turn to page still on 4 of your report. It's the the remainder of that sentence, "Talc deposits can contain asbestos, asbestiform minerals, or minerals containing elevated levels of heavy metals and arsenic, making their ores potentially unsafe. The distribution of asbestos and/or these undesirable elements can be quite irregular within individual talc deposits themselves or in the immediately adjacent host rocks."  Did I read that right?  A Sure.  Q So you you'll agree with me that Should I is it right to call the ore the economic mineral, you know, in a talc
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	just ignore that.  And, so so you have to you have to really take a look at the technique that's being used if you want to talk about surface chemistry versus total chemistry.  Q And do you have an opinion as to whether or not I'll call it the cleavage fragments versus asbestiform fibers have different surface features and different surface identifiable markers?  MS. O'DELL:  Object to form.  A I think that that it's possible to identify cleavage surfaces under some situations, because they don't have to be perfectly planar. You can have steps where where the cleavage fragment is actually peeling away from the adjacent fragment that results when the two separate.  The problem with this is that that can happen in a fiber. I mean, an amphibole fiber,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	associated with a cleavage fragment versus an asbestiform  A No.  Q mineral?  A No.  Q Turn to page still on 4 of your report. It's the the remainder of that sentence, "Talc deposits can contain asbestos, asbestiform minerals, or minerals containing elevated levels of heavy metals and arsenic, making their ores potentially unsafe. The distribution of asbestos and/or these undesirable elements can be quite irregular within individual talc deposits themselves or in the immediately adjacent host rocks."  Did I read that right?  A Sure.  Q So you you'll agree with me that  Should I is it right to call the ore the economic mineral, you know, in a talc deposit?

	Page 122		Page 124
1	you intend to extract and mill.	1	Object to the form.
2	MR. FROST:	2	A I mean, you could have things that you
3	Q Okay. You'd agree with me that the	3	mentioned that don't even exist in some areas.
4	shape, size, and distribution of that, you know,	4	MR. FROST:
5	area of mineral you intend to extract as ore can	5	Q Exactly.
6	be different and irregular?	6	A So, of course.
7	A Very.	7	Q Okay. And would you also generally
8	Q And they're different for every	8	agree with me that the the areas of talc that
9	deposit; right?	9	are mined for use in cosmetic talcum powder,
10	A Very. Yes, sure.	10 11	you know, are much purer than, you know, sort of
11 12	Q It's not always gonna be the same	12	the average deposit of talc you might find somewhere in the world?
13	shape. It's not always gonna be the same size.	13	
13 14	A That's why they have mining engineers.  Q And you'd agree with me that each	14	A Are you MS. O'DELL:
15	mineral deposit is usually complex?	15	Object to the form.
16	A Yes.	16	A Are you restricting this to the to
17	MS. O'DELL:	17	the US?
18	Object to the form.	18	MR. FROST:
19	MR. FROST:	19	Q I don't have to. I can ask it
20	Q You know, and they have complex and	20	Is is your answer different if it's
21	different geological histories?	21	US versus
22	MS. O'DELL:	22	A It is.
23	Do you mean that specific mineral	23	Q somewhere else?
24	deposits?	24	A Yes.
	Page 123		Page 125
1	MR. FROST:	1	Q Okay. So restricted it to the US. So
2			The state of the s
2	Q Just in just in general. Well,	2	what's your opinion there?
3	we'll narrow it down to talc deposits.	2 3	what's your opinion there?  A Then with with respect to the US,
3 4	we'll narrow it down to talc deposits. MS. O'DELL:	2 3 4	what's your opinion there?  A Then with with respect to the US, yeah, it's a higher quality talc.
3 4 5	we'll narrow it down to talc deposits.  MS. O'DELL:  With the world of talc or world of	2 3 4 5	what's your opinion there?  A Then with with respect to the US, yeah, it's a higher quality talc.  Q Okay. And why is that different when
3 4 5 6	we'll narrow it down to talc deposits.  MS. O'DELL:  With the world of talc or world of minerals.	2 3 4 5 6	what's your opinion there?  A Then with with respect to the US, yeah, it's a higher quality talc.  Q Okay. And why is that different when you then add in worldwide talc deposits?
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32 (Pages 122 to 125)

	Page 126		Page 128
1	MS. O'DELL:	1	accessory minerals in every deposit. Is that a
2	Object to the form.	2	fair statement?
3	A Yeah. You can't you can't say that,	3	MS. O'DELL:
4	simply because the Vermont talc deposits are not	4	Are you talking about the same
5	monomineralic. They actually mine ore that's	5	geographic area or different geographic area for
6	talc plus carbonate.	6	the deposit?
7	MR. FROST:	7	MR. FROST:
8	Q Okay.	8	Q Just in in general, you know, for
9	A They do it on purpose.	9	talc deposits. You know, we can limit it, let's
10	So that's not monomineralic.	10	say, for example, in the United States, along the
11	Q I see.	11	ultramafic belt.
12	So I guess a better way to ask it,	12	MS. O'DELL:
13	you know, the the talcum powder the	13	Object to the form.
14	deposits that were used to source the talcum	14	A In the ultramafic belt, you can expect
15	powder for Johnson & Johnson, they tended to be	15	to find certain minerals just by virtue of of
16	higher percentages of talc and sort of more pure	16	how the ultramafic bodies themselves got to where
17	talc deposits than other talc deposits that exist	17	they are, how they were altered, what what
18	throughout the United States, for example?	18	· · · · · · · · · · · · · · · · · · ·
19	MS. O'DELL:	19	metamorphic grade they occur at.  And, interestingly enough, the
20	Object to the form.	20	
21	A No, that's not right.	21	chemistry of the rocks that surround them
22	MR. FROST:	22	apparently have a little bit to do with what
23	Q Okay. So you don't believe that,	23	what you're gonna see. MR. FROST:
24	you know, companies try to find talc deposits		
		24	Q Okay. You'd agree with me, just
	Page 127		Page 129
1	Page 127 with a higher concentration of talc to use for	1	
1 2		1 2	Page 129
	with a higher concentration of talc to use for		Page 129 because you find actinolite in one deposit
2	with a higher concentration of talc to use for cosmetic talcum powder?	2	Page 129 because you find actinolite in one deposit doesn't mean actinolite is gonna be in every
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2 3 4	with a higher concentration of talc to use for cosmetic talcum powder?  MS. O'DELL:  Object to the form.	2 3 4	because you find actinolite in one deposit doesn't mean actinolite is gonna be in every single talc deposit along the belt; correct?  A My guess is that, if you want to use
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33 (Pages 126 to 129)

	Page 130		Page 132
1	they're they're interbedded.	1	instance, I think the Johnson mine has had
2	And, so, you you do tend to see	2	cobaltite reported from it, and and we don't
3	tremolite in those. But you've got to	3	see any evidence of cobaltite at any of the other
4	accommodate calcium somehow, and that's that's	4	talc deposits.
5	a common way.	5	And, so, from that standpoint, sure,
6	Q Okay. But, so you'd agree with me,	6	there there can be a difference in the suite
7	then, that not every deposit of talc is gonna	7	of accessory minerals.
8	have tremolite in it, because they're not all	8	But if you're gonna talk about the
9	gonna be comprised of the same underlying	9	common rock-forming minerals, geez, you know,
10	original materials before metamorphosis; right?	10	those things show up all over the place.
11	MS. O'DELL:	11	I mean, if you look at the black wall,
12	Object to the form.	12	you know, most of these deposits have got a a
13	A I'm I'm not gonna say that they all	13	rind around them; and the black wall, by
14	don't	14	definition, has amphiboles in it. And based on
15		15	the chemistry of these things, they're bound to
	Talc deposits can be you know,	16	be actinolite.
16	they're pretty large. And if you found a	17	MR. FROST:
17	little you know, these are little, rootless	18	Q Okay. You'd agree with me that,
18	ultramafic bodies. Some of them are no bigger	19	depending at the pressures, temperature, and the
19	than this (indicating). And you might find a	20	time in which they form, what you're gonna find
20	little teeny one like that, and there won't be a	21	associated with each, you know, mineable talc
21	tremolite grain within 50 feet of it.	22	deposit's gonna be different?
22	But in terms of an economic talc	23	MS. O'DELL:
23	deposit, I would be shocked if you couldn't go	24	Object to the form. Asked and
24	and station somebody at the mine the day it	47	Object to the form. Asked and
	and station someody at the name the day it		
	Page 131		Page 133
1	Page 131	1	Page 133
	Page 131 opened and and have them do nothing but search	1	answered.
1	Page 131 opened and and have them do nothing but search for tremolite every day, and sometime during the	2	answered. A Yeah. I I the way the way
1 2	Page 131  opened and and have them do nothing but search for tremolite every day, and sometime during the operation of that mine they're gonna come in with	2 3	answered.  A Yeah. I I the way the way that you stated that, I I don't think I would
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	Page 134		Page 136
1	Object to the form.	1	unit. The the most recent publications spell
2	A It certainly can. There seem to be	2	it out pretty clearly that that that is a a
3	some some consistent threads that run through	3	sequence of rocks that contain carbonates, and
4	these. But if you've looked at any of the mine	4	those carbonates are deformed and they're they
5	maps, you've seen that some of these deposits are	5	have been originally metamorphosed at apparently
6	certainly cut by faults, and and some of these	6	high grade, because they're garnets in the in
7	faults actually control the disposition of some	7	the adjacent schists. And garnets are a mineral
8	of these accessory minerals.	8	that that actually signals the beginning of a
9	MR. FROST:	9	certain level of regional metamorphism.
10	Q Uh-huh.	10	When you hit garnet grade metamorphism,
11	A So if it's not like faulting, then,	11	you open up it's not really a Pandora's box,
12	you know, then you might not see a certain	12	but you have the opportunity for a lot of a
13	mineral.	13	lot of more complicated mineralogy.
14	Some of these also had lamprophyre	14	And and that was what I meant in
15	dikes in them. And those dikes, they have their	15	that statement. If you if you go to the
16	own mineral assemblage. But but since it's	16	literature and read about the accessory minerals
17	almost impossible to mine some of the talc	17	there in the Italian talc deposits, you'll see
18	without incorporating some of the lamprophyre,	18	some minerals mentioned that that you don't
19	then then you've got to look at the	19	see attributed to some of the stuff in Vermont,
20	lamprophyre.	20	for instance.
21	Q Okay. You'd agree with me, you know,	21	Q Okay. So that's what you're talking
22	depending on what the surrounding rock was of the	22	that's what you're talking about is because it's
23	serpentinite, when it was formed, the temperature	23	hosted from a different type of of rock?
24	and pressure at which it was formed, you know,	24	A It's a different type it's a
	Page 135		Page 137
1	whether or not it went through multiple stages of	1	those are different type deposits.
2	metamorphosis, all of this would, you know,	2	Q Okay. And you'd agree with me that,
3	change what might be in that particular localized	3	you know, the literature basically says that the
4	deposit?	4	mineralogical composition was effectively stable
5	MS. O'DELL:	5	through its formation in the Fontane area or the
6	Object to the form.	6	Val Chisone area?
7	A In terms of accessory minerals, it	7	MS. O'DELL:
8	might.	8	Object to the form.
9	MR. FROST:	9	MR. FROST:
10	Q Okay. Okay. Page 4, go to section 1,	10	Q And remained stable throughout
11	"Chronology of Talc Sources." In that first	11	subsequent metamorphism?
12	paragraph, we're talking about the Italian mine	12	MS. O'DELL:
13	in in this; correct? The Fontane mine?	13	Object to the form.
14	A Sure.	14	A I think I know what you're asking.
			Are you asking about the talc remaining
15	Q Okay. And down towards the bottom of	15	
15 16	that paragraph you state, "Deposits from this	16	stable?
15 16 17	that paragraph you state, "Deposits from this region are known to be mineralogically complex,	16 17	stable? MR. FROST:
15 16 17 18	that paragraph you state, "Deposits from this region are known to be mineralogically complex, particularly with respect to their host	16 17 18	stable? MR. FROST: Q That's correct.
15 16 17 18 19	that paragraph you state, "Deposits from this region are known to be mineralogically complex, particularly with respect to their host metamorphics"?	16 17 18 19	stable? MR. FROST: Q That's correct. A That's probably right.
15 16 17 18 19 20	that paragraph you state, "Deposits from this region are known to be mineralogically complex, particularly with respect to their host metamorphics"?  A Right.	16 17 18 19 20	stable? MR. FROST: Q That's correct. A That's probably right. Q Okay. And, at the end of that
15 16 17 18 19 20 21	that paragraph you state, "Deposits from this region are known to be mineralogically complex, particularly with respect to their host metamorphics"?  A Right.  Q Can you explain to me how the	16 17 18 19 20 21	stable? MR. FROST: Q That's correct. A That's probably right. Q Okay. And, at the end of that paragraph, you note, "The deposits were often
15 16 17 18 19 20 21 22	that paragraph you state, "Deposits from this region are known to be mineralogically complex, particularly with respect to their host metamorphics"?  A Right.  Q Can you explain to me how the particular deposit at the Fontane mine was	16 17 18 19 20 21 22	stable? MR. FROST: Q That's correct. A That's probably right. Q Okay. And, at the end of that paragraph, you note, "The deposits were often small and mined by underground methods."
15 16 17 18 19 20 21	that paragraph you state, "Deposits from this region are known to be mineralogically complex, particularly with respect to their host metamorphics"?  A Right.  Q Can you explain to me how the	16 17 18 19 20 21	stable? MR. FROST: Q That's correct. A That's probably right. Q Okay. And, at the end of that paragraph, you note, "The deposits were often

35 (Pages 134 to 137)

	RODEIL CO		
	Page 138		Page 140
1	A The the some of the earlier	1	Valley.
2	descriptions of the the Val Chisone district's	2	A Yes.
3	deposits show them to be lens-like within the	3	Q Not necessarily the Fontane deposit.
4	host carbonate-bearing strata. And, so, if	4	A Right. Right.
5	you've if you've ever seen a a	5	Q And have you ever read the work by
6	cross-section of the Germanasca Valley, you've	6	Sandrone and Zuchetti?
7	got a valley, and there are mines on both sides	7	A I don't recognize the names. It
8	of it.	8	doesn't mean I haven't read it.
9	Q Uh-huh.	9	Q Okay. And
10	A And at the Fontane mine, you've got	10	A Can I can I continue with my answer
11	you've got openings on one side and the other,	11	to that last question?
12	and they are all accumulated into material that's	12	Q Sure.
13	called Fontane mine. And, yet, they're not	13	A The reason I mentioned the small mines,
14	really a mine that's connected, and yet they're	14	there there is an issue with with with
15	all in the same stratigraphic horizon.	15	talc mining as well as gold mining. If you have
16	If you were to go up or down the	16	a mineral deposit that that has value on
17	valley let's say up the valley you're	17	paper, you have got to convert that mineral
18	following the stratigraphy. Okay? The valley	18	deposit into somebody giving you a check for the
19	has actually cut through the band of rocks that	19	ore or the finished product.
20	contain the talc. And Fontane is in is,	20	And, so, what happens if you're in the
21	you know, in the sides of the valley.	21	Germanasca Valley and you've got a very small,
22	If you go up the valley, you're still	22	very nice grade, very nice talc deposit? You've
23 24	following that same bed of rock, and there are lens-like occurrences of talc that have been	23	got to have some way to mill that.
24	iens-like occurrences of taic that have been	24	Well, suppose there's only one mill in
	Page 139		Page 141
1	mined. And, so, those would be much smaller	1	the whole region? And, so, what do you do? You
2	mines than the Fontane. The Fontane's a big	2	take some samples, you go to the guy that owns
3	mine.	3	the mill and you say, "Um, I've got all this
4	Q Okay. That's what I was gonna get at.	4	really good talc I'd like to I've got to do
5	That statement doesn't necessarily, you know	5	something with it. Will you buy it?" And if
6	you'd agree with me that the deposit at Fontane	6	they like it, they say, "Sure," and it just goes
7	mine is actually considered to be a fairly large	7	right in with the product coming labeled Val
8	talc deposit?	8	Chisone.
9	A It's big. Vertically, you're looking	9	Q And
10	at multiple levels that I can't remember	10	A Because it's the only mill in the
11	exactly, but you're looking at least at least	11	region. This happens all over the world. People
12	400 feet in terms of vertical extent in that	12	have smaller deposits, and they feed mills that
13	mine. And I take that to mean that there are	13	are actually being run to process ore from the
14	multiple ore horizons, which would be	14	district's main mine.
15	interesting. I don't think you're gonna find a	15	Q And, sitting here, you have no evidence
16	talc deposit that's 400 feet thick. I mean, I	16	to show that that actually happened
17	don't think that's happening.	17	A No.
18	So my interpretation of the	18	Q with respect to the Fontane?
19	cross-section I've seen is that there are	19	A I'm just pointing out that that is a
20	multiple horizons within the rock unit that	20	very common characteristic
	contains the the talc.	21	Q Okay.
21		1	
22	Q Okay. So the statement you have, you	22	A of mining in general.
22 23	Q Okay. So the statement you have, you know, that the deposits were often small, that's	22 23	<ul><li>A of mining in general.</li><li>Q But, without speculating, you can't</li></ul>
22	Q Okay. So the statement you have, you	22	A of mining in general.

	Page 142		Page 144
1	sourced by Johnson & Johnson came from anywhere	1	A I think that
2	other than the Fontane mine; correct?	2	MS. O'DELL:
3	MS. O'DELL:	3	Object to the form.
4	Object to the form.	4	A Right. I think today it's a family or
5	A I'm not sure that that all the	5	it was a family-operated enterprise.
6	documents actually say that. I think that some	6	MR. FROST:
7	of them are careful or, let's just say I think	7	Q Uh-huh.
8	some of them don't actually name the Fontane mine	8	A And, so, they own the Fontane mine and,
9	by name. They they just talk about the	9	so, what they sell is gonna be attributed to the
10	district or the the the valley, the Chisone	10	Fontane mine.
11	Valley. And I think that it's	11	Q Okay. Turn to page 5. The first full
12	This is sort of an interesting thing,	12	sentence on the page starts, "The first
13	because it may be that that the ore that's	13	comprehensive overview of Vermont's talc deposits
14	processed from the smaller occurrences might be	14	were given by Chidester, Billings, and Cady in
15	very, very, very high grade or it wouldn't have	15	1951"
16	been accepted at the mill.	16	A Right.
17	MR. FROST:	17	<ul> <li>Q "and a review of the ultramafic</li> </ul>
18	Q But you have no evidence to show	18	province of Vermont including its
19	A No.	19	serpentinite-associated talc and asbestos
20	Q one way or the other?	20	deposits was published in Ratté in 1982."
21	A No, other other than they talk about	21	Did I read that right?
22	small mines. And you don't you don't have a	22	A I think you did. I'm not sure I worded
23	small mine if there's nowhere to process the ore.	23	it right, but
24	Q Who who talks about small mines?	24	Q And then it continues, "The
	Page 143		Page 145
1	A Well, it's in the literature.	1	consanguinity of talc and asbestos in such
2	Q The literature?	2	deposits is further supported by the numerous
3	A Yeah.	3	descriptions of both talc and asbestos in
4	Q The literature talks about small mines?	4	deposits such as Bain (1934; 1942). The intimate
5	A Sure.	5	association of amphiboles, including those of
6	Q But not any of the documents from	6	asbestiform habit with talc deposits derived from
7	Johnson & Johnson or Imerys; correct?	7	serpentinites and related rocks, is discussed by
8	A I think they may be mentioned in one of	8	Van Gosen (2004)."
9	the published papers. But that's characteristic	9	Correct?
10	of of any district. You're gonna have large	10	A Right.
11	mines and small mines. I mean, I can't think of	11	Q All right. So the way the last
12	anywhere where you've just got one huge mine and	12	sentence reads, you're not saying that every talc
13	there never was anything else around it.	13	rock is guaranteed to have asbestos and
	Q Okay. You'd agree with me the Fontane	14	amphiboles associated in it; correct?
14	mine has been mined, I think, for at least a	15	A No, I'm not saying that.
15		16	Q Okay. All right.
15 16	hundred years?		
15 16 17	A Yes.	17	I'm gonna mark
15 16 17 18	A Yes. Q And it might even be longer?	17 18	What exhibit are we on?
15 16 17 18 19	<ul><li>A Yes.</li><li>Q And it might even be longer?</li><li>A Yes.</li></ul>	17 18 19	What exhibit are we on? THE COURT REPORTER:
15 16 17 18 19 20	<ul> <li>A Yes.</li> <li>Q And it might even be longer?</li> <li>A Yes.</li> <li>Q And that's you know, any time that</li> </ul>	17 18 19 20	What exhibit are we on? THE COURT REPORTER: Eight.
15 16 17 18 19 20 21	<ul> <li>A Yes.</li> <li>Q And it might even be longer?</li> <li>A Yes.</li> <li>Q And that's you know, any time that evidence actually points to where the</li> </ul>	17 18 19 20 21	What exhibit are we on? THE COURT REPORTER: Eight. (DEPOSITION EXHIBIT NUMBER 8
15 16 17 18 19 20 21	<ul> <li>A Yes.</li> <li>Q And it might even be longer?</li> <li>A Yes.</li> <li>Q And that's you know, any time that evidence actually points to where the Italian-sourced talc came from, it specifically</li> </ul>	17 18 19 20 21 22	What exhibit are we on? THE COURT REPORTER: Eight. (DEPOSITION EXHIBIT NUMBER 8 WAS MARKED FOR IDENTIFICATION.)
15 16 17 18 19 20 21	<ul> <li>A Yes.</li> <li>Q And it might even be longer?</li> <li>A Yes.</li> <li>Q And that's you know, any time that evidence actually points to where the</li> </ul>	17 18 19 20 21	What exhibit are we on? THE COURT REPORTER: Eight. (DEPOSITION EXHIBIT NUMBER 8

37 (Pages 142 to 145)

	Page 146		Page 148
1	specifically turning your attention to page 33.	1	A Back to back.
2	I believe it's 33, 34.	2	Q And if you look down at the section
3	A My page numbers are	3	called "Talc in Soapstones," you'll note on the
4	MS. O'DELL:	4	second paragraph
5	Front and back, I believe.	5	A Right. Right.
6	A Yeah. I've got one with with one	6	Q it says, "The talc-soapstone
7	page number on it.	7	mineralization coincide with the described above
8	Okay. I've got 33. Have you	8	for asbestos and is included within the
9	highlighted it in yellow?	9	ultramafic process."
10	MR. FROST:	10	Correct?
11	Q The copy I had was highlighted.	11	A Right.
12	A Okay.	12	_
13	Q I didn't highlight it, but		Q So he's referencing specifically with
14	A Okay.	13	the talc-soapstone mineralization that, you know,
15	Q it's the only copy I had.	14	it relates to the asbestos discussed above.
16	Is yours not highlighted?	15	Right?
17	MS. O'DELL:	16	A Right.
18	No.	17	Q If you turn to the top of page 34,
19	MR. FROST:	18	Ratté states that the talc mines of Windsor
20		19	Minerals, Inc., in Hammondsville and Ludlow, a
	On page 33?	20	Vermont Talc Company mine in Andover, and the
21	MS. O'DELL:	21	Vermont Soapstone Company Mine in Chester are
22	No.	22	included in the southern talc mining district."
23	MR. FROST:	23	Correct?
24	Huh. All right. Do you want to	24	A That's what he says, sure.
			Page 149
1	mark maybe we'll mark that one, then. It	1	Q And he's distinguishing the
2	doesn't really unless you care. I don't I	2	talc-soapstone mineralization that he coincides
3	don't care.	3	with the asbestos from the southern what does
4	MS. O'DELL:	4	he call it? talc mining district. Correct?
5	If it's that's fine if you if	5	MS. O'DELL:
6	you've marked that one.	6	
			Object to the form
	MR_FROST:		Object to the form.  A I'm not sure that that's what he's
7	MR. FROST:  Veah Lwas going to say I mean, it	7	A I'm not sure that that's what he's
7 8	Yeah. I was going to say, I mean, it	7 8	A I'm not sure that that's what he's saying. But I'll accept that.
7 8 9	Yeah. I was going to say, I mean, it actually speeds things up	7 8 9	A I'm not sure that that's what he's saying. But I'll accept that. MR. FROST:
7 8 9 10	Yeah. I was going to say, I mean, it actually speeds things up MS. ODELL:	7 8 9 10	A I'm not sure that that's what he's saying. But I'll accept that. MR. FROST: Q Yeah. Okay.
7 8 9 10 11	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope	7 8 9 10 11	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST: Q Yeah. Okay. A But but, before we go on, I'd like
7 8 9 10 11 12	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST:	7 8 9 10 11 12	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST: Q Yeah. Okay. A But but, before we go on, I'd like to point out what he says in the second full
7 8 9 10 11 12	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place.	7 8 9 10 11 12 13	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST: Q Yeah. Okay. A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.
7 8 9 10 11 12 13	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL:	7 8 9 10 11 12 13 14	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?
7 8 9 10 11 12 13 14	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine.	7 8 9 10 11 12 13 14 15	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.
7 8 9 10 11 12 13 14 15	Yeah. I was going to say, I mean, it actually speeds things up MS. ODELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST:	7 8 9 10 11 12 13 14 15	A I'm not sure that that's what he's saying. But I'll accept that. MR. FROST: Q Yeah. Okay. A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay.
7 8 9 10 11 12 13 14 15 16 17	Yeah. I was going to say, I mean, it actually speeds things up MS. ODELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the	7 8 9 10 11 12 13 14 15 16 17	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the
7 8 9 10 11 12 13 14 15 16 17	Yeah. I was going to say, I mean, it actually speeds things up MS. ODELL: My hope MR. FROST: if I point him in the right place. MS. ODELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33,	7 8 9 10 11 12 13 14 15 16 17 18	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the consequences of the occurrence of these minerals
7 8 9 10 11 12 13 14 15 16 17 18	Yeah. I was going to say, I mean, it actually speeds things up MS. ODELL: My hope MR. FROST: if I point him in the right place. MS. ODELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos	7 8 9 10 11 12 13 14 15 16 17 18	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the consequences of the occurrence of these minerals together.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your	7 8 9 10 11 12 13 14 15 16 17 18 19 20	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST: Q Yeah. Okay. A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay. A He warns about the the the consequences of the occurrence of these minerals together. Q Okay. These I don't understand
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your paper; correct?	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the consequences of the occurrence of these minerals together.  Q Okay. These I don't understand where he's warning. He says Vermont leads the
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your paper; correct? A Yeah. He does asbestos and talc in	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST: Q Yeah. Okay. A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay. A He warns about the the the consequences of the occurrence of these minerals together. Q Okay. These I don't understand where he's warning. He says Vermont leads the nation in talc production.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Yeah. I was going to say, I mean, it actually speeds things up MS. O'DELL: My hope MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your paper; correct?	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A I'm not sure that that's what he's saying. But I'll accept that.  MR. FROST:  Q Yeah. Okay.  A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the consequences of the occurrence of these minerals together.  Q Okay. These I don't understand where he's warning. He says Vermont leads the

38 (Pages 146 to 149)

	Page 150		Page 152
1	popular	1	deal.
2	A No. It's the paragraph that starts	2	And probably the largest asbestos mine
3	"because of the natural mineralogical	3	that ever was in Vermont was on a mountain called
4	associations."	4	Belvidere Mountain. And there was an early talc
5	Q Okay. So not the second paragraph?	5	mine on Belvidere Mountain in the serpentinite.
6	A Second full paragraph. At least,	6	But if you if you ask somebody about
7	that's what it is on mine.	7	Belvidere Mountain, they're gonna say, "Oh, yeah,
8	No. I'm sorry. Third. Go ahead.	8	that's a great old big asbestos mine." And, yet,
9	MS. O'DELL:	9	there was talc there.
10	Why don't you read the section you're	10	And I think Ratté, Ratté, I think, was
11	referring to?	11	a pretty good state geologist, and I think he
12	A All right.	12	he was a visionary and was clearly concerned
13	"Because of the natural mineralogical	13	about the occurrence of these two minerals
14	associations of serpentine asbestos and talc,	14	together. And that was why I point this out.
15	similar environmental health concerns"	15	Q Okay. But you agree with me, as he's
16	Q Uh-huh.	16	talking about
17	A Et cetera, et cetera.	17	A There's definitely a central and a
18	So he's pointing out the fact that	18	southern district also.
19	asbestos and talc occur in similar environments	19	Q Okay. And these are different
20	and you'd better watch out.	20	different districts in the tale
21	Q Okay. But you agree with me he's	21	I mean, is it fair to say as you're
22	specifically coinciding the deposits together,	22	moving south along the Appalachians
23	when he's talking about the talc-soapstone	23	A They're geographically different.
24	mineralization and the relationship to the	24	MS. O'DELL:
		"	MS. ODLLL.
	Page 151		Page 153
1	asbestos mines, he specifically is excepting out	1	Page 153 Excuse me.
1 2	asbestos mines, he specifically is excepting out of that talc mines of southern Vermont; correct?	2	
	asbestos mines, he specifically is excepting out of that talc mines of southern Vermont; correct? MS. O'DELL:	1	Excuse me.  MR. FROST:  Q Yes. The geo the the two or
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39 (Pages 150 to 153)

	Page 154		Page 156
1	about the Belvidere, you know, Mountain	1	comment and not a peer-reviewed publication;
2	A Yeah. Sure.	2	right?
3	Q versus the southern talc districts;	3	MS. O'DELL:
4	right?	4	Object to the form.
5	A He does. But but he doesn't say	5	A I can't say that. It isn't a
6	that the geology is different.	6	peer-reviewed publication, but you can't say that
7	Q Well, he defines them as separate	7	it wasn't peer-reviewed before they were willing
8	geological districts, doesn't he?	8	to publish it. But it isn't a publication. It's
9	A He does. But, I mean, you can go to	9	a response.
10	the state of Nevada, and there's 150 different	10	MR. FROST:
11	gold districts, but they're the same in terms of	11	Q Yeah. I was gonna say you'd agree with
12	geology. It's a geographic separation of the	12	me it's a specific comment or response to
13	the the the areas that tend to have gold	13	something
14	mineralization.	14	A Yes.
15	Q Okay.	15	Q else that's done; right?
16	A But the mineralization is the same.	16	Now, will you also agree with me
17	Same type.	17	that it's fairly short, but it never
18	Q But you'd agree with me that Ratté is	18	specifically mentions any of the mines from
19	very specifically stating that the talc mines of	19	Vermont that were used to source talcum powder
20	southern Wind of Windsor Minerals in the	20	for Johnson; right?
21	southern mining district are different than what	21	A I don't think there's a specific mine
22	he talks about with the soapstone mineralization	22	mentioned in there.
23	district and the asbestos mining district of the	23	Q Okay.
24	Upper Missisquoi River Valley.	24	Mark this as Exhibit 10.
	Page 155		Page 157
1	A Yeah.	1	(DEPOSITION EXHIBIT NUMBER 10
1 2	A Yeah. MS. O'DELL:	1 2	(DEPOSITION EXHIBIT NUMBER 10 WAS MARKED FOR IDENTIFICATION.)
			•
2	MS. O'DELL:	2	WAS MARKED FOR IDENTIFICATION.)
2	MS. O'DELL: Object to the form.	2 3	WAS MARKED FOR IDENTIFICATION.) MR. FROST:
2 3 4	MS. O'DELL: Object to the form. MR. FROST: Q Okay. A I would be willing to say that he's	2 3 4	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be
2 3 4 5	MS. O'DELL: Object to the form. MR. FROST: Q Okay.	2 3 4 5	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be the Bain 1942?
2 3 4 5 6	MS. O'DELL: Object to the form. MR. FROST: Q Okay. A I would be willing to say that he's	2 3 4 5 6	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be the Bain 1942? A Sure.
2 3 4 5 6 7	MS. O'DELL: Object to the form. MR. FROST: Q Okay. A I would be willing to say that he's making a distinction between the two.	2 3 4 5 6 7	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be the Bain 1942? A Sure. Q And, again, you'd agree with me that
2 3 4 5 6 7 8	MS. O'DELL: Object to the form.  MR. FROST: Q Okay. A I would be willing to say that he's making a distinction between the two. Q Okay.	2 3 4 5 6 7 8	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be the Bain 1942? A Sure. Q And, again, you'd agree with me that this paper does not address any of the talc mines
2 3 4 5 6 7 8	MS. O'DELL: Object to the form.  MR. FROST: Q Okay. A I would be willing to say that he's making a distinction between the two. Q Okay. (DEPOSITION EXHIBIT NUMBER 9 WAS MARKED FOR IDENTIFICATION.)  MR. FROST:	2 3 4 5 6 7 8 9 10	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be the Bain 1942? A Sure. Q And, again, you'd agree with me that this paper does not address any of the talc mines actual utilized by Johnson & Johnson to source
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form.  MR. FROST: Q Okay. A I would be willing to say that he's making a distinction between the two. Q Okay. (DEPOSITION EXHIBIT NUMBER 9 WAS MARKED FOR IDENTIFICATION.)  MR. FROST: Q I'll mark as Exhibit 9 A He pronounces his name "rat-TAY." Q It's "rat-TAY"? A Yeah. Q He's French, I guess? A Yeah. Q Do you recognize this to be Do you have it yet? Here it is.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	WAS MARKED FOR IDENTIFICATION.)  MR. FROST:  Q And, again, do you recognize this to be the Bain 1942?  A Sure.  Q And, again, you'd agree with me that this paper does not address any of the talc mines actual utilized by Johnson & Johnson to source talc for its talcum powder; correct?  MS. O'DELL:  Object to the form.  A I don't think it specifically names any. I think that the date of the article would kind of preclude most of that.  MR. FROST:  Q Turn to page 256.  A Okay.  Q Second column, the second paragraph
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form.  MR. FROST: Q Okay. A I would be willing to say that he's making a distinction between the two. Q Okay. (DEPOSITION EXHIBIT NUMBER 9 WAS MARKED FOR IDENTIFICATION.)  MR. FROST: Q I'll mark as Exhibit 9 A He pronounces his name "rat-TAY." Q It's "rat-TAY"? A Yeah. Q He's French, I guess? A Yeah. Q Do you recognize this to be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	WAS MARKED FOR IDENTIFICATION.)  MR. FROST:  Q And, again, do you recognize this to be the Bain 1942?  A Sure.  Q And, again, you'd agree with me that this paper does not address any of the talc mines actual utilized by Johnson & Johnson to source talc for its talcum powder; correct?  MS. O'DELL:  Object to the form.  A I don't think it specifically names any. I think that the date of the article would kind of preclude most of that.  MR. FROST:  Q Turn to page 256.  A Okay.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form.  MR. FROST: Q Okay. A I would be willing to say that he's making a distinction between the two. Q Okay. (DEPOSITION EXHIBIT NUMBER 9 WAS MARKED FOR IDENTIFICATION.)  MR. FROST: Q I'll mark as Exhibit 9 A He pronounces his name "rat-TAY." Q It's "rat-TAY"? A Yeah. Q He's French, I guess? A Yeah. Q Do you recognize this to be Do you have it yet? Here it is. A No. Q Do you recognize Exhibit 9 to be the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q And, again, do you recognize this to be the Bain 1942? A Sure. Q And, again, you'd agree with me that this paper does not address any of the talc mines actual utilized by Johnson & Johnson to source talc for its talcum powder; correct? MS. O'DELL: Object to the form. A I don't think it specifically names any. I think that the date of the article would kind of preclude most of that. MR. FROST: Q Turn to page 256. A Okay. Q Second column, the second paragraph after the one above Belvidere Mountain Asbestos district. Do you see where I am?

40 (Pages 154 to 157)

	Page 158		Page 160
1	Yeah, right-hand side.	1	Q Yeah.
2	A Right-hand side.	2	Okay. So steatitized bodies at Chester
3	MR. FROST:	3	in Windham; correct?
4	Q It's the last paragraph before	4	A Correct.
5	Belvidere Mountain asbestos district. It's	5	Q So, effectively, what Bain is saying
6	the if you're going up	6	here is that you know, he's not saying you
7	A Oh, I see it.	7	find fibrous magnesium minerals in every talc
8	<ul> <li>Q it's the second paragraph up.</li> </ul>	8	deposit in Vermont; right?
9	A Okay. Right.	9	A That's right.
10	Q The second sentence reads, "Every	10	Q And
11	ultrabasic intrusive has a talc deposit, and	11	A I'm not sure to what degree he's
12	about one-third have some fibrous magnesia	12	talking about that. Is he if he's talking
13	mineral."	13	See, this is an Economic Geology
14	A Okay.	14	publication.
15	Q It continues down below, "The	15	Q Okay.
16	occurrences illustrate progressively increased	16	A It's on, you know, structural
17	intensity of change from talc to asbestos in	17	relationship of ore bodies. And he may be
18	proportionate amounts of Belvidere Mountain"	18	referring to economic asbestos since that's what
19	That's what we just talked about.	19	this whole publication is about. I don't see how
20	"to completely"	20	he could say that there is not a single grain of
21	How do you pronounce that word?	21	asbestos in in a in talc deposits once you
22	MS. O'DELL:	22	get 15 miles south of Belvidere Mountain, let's
23	Did you skip a sentence?	23	say.
24	MR. FROST:	24	Q Okay.
1	Page 159		Page 161
	I 1: 1 I 1-: D I	1	A TTI 4 . 1 11 1
	I did. I skipped one. Because I we	1	A That doesn't really make good sense.
2	can I can read it if you want, but	2	Q You agree with me that I read it
2	can I can read it if you want, but MS. O'DELL:	2 3	Q You agree with me that I read it correctly.
2 3 4	can I can read it if you want, but MS. O'DELL: I just wanted to make sure we	2 3 4	Q You agree with me that I read it correctly. A You
2 3 4 5	can I can read it if you want, but MS. O'DELL: I just wanted to make sure we MR. FROST:	2 3 4 5	<ul><li>Q You agree with me that I read it correctly.</li><li>A You</li><li>Q What he's saying</li></ul>
2 3 4 5 6	can I can read it if you want, but MS. O'DELL: I just wanted to make sure we MR. FROST: No, no. We're reading it right.	2 3 4 5 6	<ul> <li>Q You agree with me that I read it correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. You read it</li> </ul>
2 3 4 5 6 7	can I can read it if you want, but MS. O'DELL: I just wanted to make sure we MR. FROST: No, no. We're reading it right. MS. O'DELL:	2 3 4 5 6 7	Q You agree with me that I read it correctly.  A You Q What he's saying A Yeah. Yeah. You read it Q is that you'll get fibrous magnesium
2 3 4 5 6 7 8	can I can read it if you want, but MS. O'DELL: I just wanted to make sure we MR. FROST: No, no. We're reading it right. MS. O'DELL: we're all staying together.	2 3 4 5 6 7 8	Q You agree with me that I read it correctly.  A You Q What he's saying A Yeah. Yeah. You read it Q is that you'll get fibrous magnesium in about one-third of the talc deposits; correct?
2 3 4 5 6 7 8 9	can I can read it if you want, but MS. O'DELL: I just wanted to make sure we MR. FROST: No, no. We're reading it right. MS. O'DELL: we're all staying together. MR. FROST:	2 3 4 5 6 7 8	Q You agree with me that I read it correctly.  A You Q What he's saying A Yeah. Yeah. You read it Q is that you'll get fibrous magnesium in about one-third of the talc deposits; correct?  MS. O'DELL:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	can I can read it if you want, but MS. O'DELL:     I just wanted to make sure we MR. FROST:     No, no. We're reading it right. MS. O'DELL:     we're all staying together. MR. FROST:     Yeah. A I'm not sure which one you're talking about. MR. FROST: Q Straight as a S-T-E-A-T-I-T-I-Z-E-D. A I can't see it. It's so fine. Q I looked it up. I know it means talc, but I think it's just an older word. A Yeah. Q "State-a-zide." Stat statizized [sic] bodies?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q You agree with me that I read it correctly.  A You Q What he's saying A Yeah. Yeah. You read it Q is that you'll get fibrous magnesium in about one-third of the talc deposits; correct?  MS. O'DELL: Object to the form.  MR. FROST: Q That's what Bain says. A Correct. Q And then he also talks about the fact A Let me let me back up. If he just says fibrous magnes magnesium? Q Yeah. Magnesian mineral. A Okay. How about those that aren't
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	can I can read it if you want, but MS. O'DELL:     I just wanted to make sure we MR. FROST:     No, no. We're reading it right. MS. O'DELL:     we're all staying together. MR. FROST:     Yeah. A I'm not sure which one you're talking about. MR. FROST: Q Straight as a S-T-E-A-T-I-T-I-Z-E-D. A I can't see it. It's so fine. Q I looked it up. I know it means talc, but I think it's just an older word. A Yeah. Q "State-a-zide." Stat statizized [sic] bodies? A Oh. You're talking about steatitized. Q Steatitized. There you go. Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q You agree with me that I read it correctly.  A You Q What he's saying A Yeah. Yeah. You read it Q is that you'll get fibrous magnesium in about one-third of the talc deposits; correct?  MS. O'DELL: Object to the form.  MR. FROST: Q That's what Bain says. A Correct. Q And then he also talks about the fact A Let me let me back up. If he just says fibrous magnes magnesium? Q Yeah. Magnesian mineral. A Okay. How about those that aren't magnesian only? Suppose they're calcium magnesian or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	can I can read it if you want, but MS. O'DELL:     I just wanted to make sure we MR. FROST:     No, no. We're reading it right. MS. O'DELL:     we're all staying together. MR. FROST:     Yeah. A I'm not sure which one you're talking about. MR. FROST: Q Straight as a S-T-E-A-T-I-T-I-Z-E-D. A I can't see it. It's so fine. Q I looked it up. I know it means talc, but I think it's just an older word. A Yeah. Q "State-a-zide." Stat statizized [sic] bodies? A Oh. You're talking about steatitized.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q You agree with me that I read it correctly.  A You Q What he's saying A Yeah. Yeah. You read it Q is that you'll get fibrous magnesium in about one-third of the talc deposits; correct?  MS. O'DELL: Object to the form.  MR. FROST: Q That's what Bain says. A Correct. Q And then he also talks about the fact A Let me let me back up. If he just says fibrous magnes magnesium? Q Yeah. Magnesian mineral. A Okay. How about those that aren't magnesian only? Suppose they're calcium

41 (Pages 158 to 161)

	Page 162		Page 164
1	A I know. But that would what he's	1	(DEPOSITION EXHIBIT NUMBER 11
2	saying specifically would be minerals that were	2	WAS MARKED FOR IDENTIFICATION.)
3	magnesian, period.	3	MR. FROST:
4	Q Okay.	4	Q You recognize this article?
5	A That would be chrysotile. And that may	5	A Yes.
6	be that may be what he's saying. He may be	6	Q And, again, you'd agree with me that
7	referring to chrysotile and not the amphiboles.	7	Van Gosen never talks specifically about any of
8	Q But, again, I'm reading what Bain is	8	the talc mines that have been utilized by
9	saying correctly?	9	Johnson & Johnson for talcum powder; correct?
10	A Correct.	10	MS. O'DELL:
11	Q Okay. And then he also talks about	11	Object to the form.
12	that there's a difference in the occurrence of	12	A I believe that he does not mention
13	he specifically says talc and asbestos in	13	specific mines.
14	proportionate amounts of Belvidere Mountain,	14	MR. FROST:
15	which we know is the chrysotile mine, and then he	15	Okay. Mark this as Exhibit 12.
16	talks about two completely steritized [sic]	16	And leave the 2010 IARC.
17	bodies"	17	To save space and so I could put it all
18	A Right.	18	in one box, I didn't bring an extra copy.
19	Q I'm sure I pronounced that incorrectly.	19	MS. O'DELL:
20	"at Chester and Windham."	20	Yeah, no problem. Just give me a
21	Correct?	21	minute to get mine.
22	So what he's saying is there's a	22	MR. FROST:
23	difference between the deposit at Belvidere and	23	Yes.
24	the deposits found south, which are completely	24	MS. O'DELL:
			Page 165
1	and I think we had defined steatitized as the	1	And that's Exhibit 12?
2	conversion of talc.	2	MR. FROST:
3	A Well, it was only Windham.	3	Yes.
4	Q Okay. And the and Windham is the	4	(DEPOSITION EXHIBIT NUMBER 12
5	area we're talking about; correct?	-	WAG MARKED FOR IDENTIFICATION.
_	——————————————————————————————————————	5	WAS MARKED FOR IDENTIFICATION.)
6	A Right.	6	WAS MARKED FOR IDENTIFICATION.) MR. FROST:
6 7	C		MR. FROST:
	Q Okay.	6	MR. FROST:
7	Q Okay.	6 7	MR. FROST: Q I'll direct your attention to page 283,
7 8	Q Okay. A You know that if you go go back and	6 7 8	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC
7 8 9	Q Okay.  A You know that if you go go back and read the publications on Belvidere Mountain,	6 7 8 9	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right.
7 8 9 10	Q Okay.  A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in	6 7 8 9 10	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document?
7 8 9 10 11	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they	6 7 8 9 10 11	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document? MS. O'DELL:
7 8 9 10 11 12	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill	6 7 8 9 10 11 12	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document? MS. O'DELL: I'm sorry. You have 2010 or 2012?
7 8 9 10 11 12	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill that would have would have recovered the talc.	6 7 8 9 10 11 12 13	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document? MS. O'DELL: I'm sorry. You have 2010 or 2012? MR. FROST:
7 8 9 10 11 12 13	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill that would have would have recovered the talc. Q Okay. But nobody ever Johnson & Johnson never sourced any talc from Belvidere; correct?	6 7 8 9 10 11 12 13 14	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document? MS. O'DELL: I'm sorry. You have 2010 or 2012? MR. FROST: 2010.
7 8 9 10 11 12 13 14	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill that would have would have recovered the talc. Q Okay. But nobody ever Johnson & Johnson never sourced any	6 7 8 9 10 11 12 13 14	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document? MS. O'DELL: I'm sorry. You have 2010 or 2012? MR. FROST: 2010. MS. O'DELL:
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7 8 9 10 11 12 13 14 15 16 17	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill that would have would have recovered the talc. Q Okay. But nobody ever Johnson & Johnson never sourced any talc from Belvidere; correct? A Correct.	6 7 8 9 10 11 12 13 14 15 16	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q2010 document? MS. O'DELL: I'm sorry. You have 2010 or 2012? MR. FROST: 2010. MS. O'DELL: Excuse me. Give me just one more second. A And which page did you say? MR. FROST:
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7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill that would have would have recovered the talc. Q Okay. But nobody ever Johnson & Johnson never sourced any talc from Belvidere; correct? A Correct. MR. FROST: And I'll mark the Van Gosen article. What are we on now? Ten?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. FROST: Q I'll direct your attention to page 283, sir. I take it you recognize this as the IARC A Right. Q 2010 document? MS. O'DELL: I'm sorry. You have 2010 or 2012? MR. FROST: 2010. MS. O'DELL: Excuse me. Give me just one more second. A And which page did you say? MR. FROST: Q 283.
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42 (Pages 162 to 165)

	Page 166		Page 168
1	Yeah.	1	there is one that that shows that there was a
2	MR. FROST:	2	period when they did did use cosmetic grade
3	You got it? All right.	3	talc from the Johnson mine.
4	Q About halfway down, there's the the	4	Q You'd agree with me that the Johnson
5	sentence starts "Chlorite in amphiboles."	5	mine was an industrial talc mine; correct?
6	A Yes.	6	MS. O'DELL:
7	Q And it reads, "Chlorite in amphiboles	7	Object to the form.
8	are usually associated with this type of talc	8	Repeat your question, please.
9	deposit, although they are commonly separated in	9	MR. FROST:
10	space from talc ore (Vermont). The amphiboles	10	
11	may or may not be asbestiform, depending on the		Q You'd agree with me that the Johnson
12	local geological history."	11	mine was
13		12	A I think, primarily.
14	Did I read that right?  A Correct.	13	Q Yeah. And you'd agree with me that
15		14	the the talc ore from the Johnson mine was
	7 7 6 7	15	actually sent to a different mill?
16	look at the individual deposit; right?	16	MS. O'DELL:
17	A Correct.	17	Object to the form.
18	Q All right. So I guess the summary of	18	A I'm not sure that that's correct.
19	all of this is, you know, local geology is	19	They they the Johnson mill had a flotation
20	important. You can look at the belt, but you	20	circuit in it that might could have been used to
21	actually have to look at local geology, too;	21	come up with some cosmetic grade rock or product.
22	right?	22	MR. FROST:
23	A Absolutely.	23	Q Okay. You can't point me, sitting here
24	Q Okay. The next paragraph on page 5 of	24	right now, to a single document
	Page 167		Page 169
1	your report, the second paragraph of that	1	A No. I think
2	page	2	
	page A We're done with IARC?		A No. I think Q to base that opinion on? A I think that
2	page	2	A No. I think Q to base that opinion on?
2 3	page A We're done with IARC?	2	A No. I think Q to base that opinion on? A I think that
2 3 4	page A We're done with IARC? Q Yeah, we're done for now. I'd keep	2 3 4	A No. I think Q to base that opinion on? A I think that MS. O'DELL:
2 3 4 5	page A We're done with IARC? Q Yeah, we're done for now. I'd keep that close. I think that comes up	2 3 4 5	A No. I think Q to base that opinion on? A I think that MS. O'DELL: I'm sorry.
2 3 4 5 6	page A We're done with IARC? Q Yeah, we're done for now. I'd keep that close. I think that comes up A Okay.	2 3 4 5 6	A No. I think Q to base that opinion on? A I think that MS. O'DELL: I'm sorry. A Ms. O'Dell may be looking for it.
2 3 4 5 6 7	page A We're done with IARC? Q Yeah, we're done for now. I'd keep that close. I think that comes up A Okay. Q a bunch of times, but	2 3 4 5 6 7	A No. I think Q to base that opinion on? A I think that MS. O'DELL: I'm sorry. A Ms. O'Dell may be looking for it. But there is there is such a document. I
2 3 4 5 6 7 8	page A We're done with IARC? Q Yeah, we're done for now. I'd keep that close. I think that comes up A Okay. Q a bunch of times, but A Okay. Which page did you say? Nine?	2 3 4 5 6 7 8	A No. I think Q to base that opinion on? A I think that MS. O'DELL: I'm sorry. A Ms. O'Dell may be looking for it. But there is there is such a document. I found it.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	page A We're done with IARC? Q Yeah, we're done for now. I'd keep that close. I think that comes up A Okay. Q a bunch of times, but A Okay. Which page did you say? Nine? Q Page 5. A Oh, 5. Okeydoke. Q In the second paragraph you note at the bottom that, "Talc was sourced from the following Vermont mines from 1965 to 2003," and the first one you include is Johnson. A Right. Q Is that a mistake, sir, or do you have any evidence to show that talc ever was sourced by Johnson & Johnson for talcum powder from the Johnson mine? A I think that there's a document that shows that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A No. I think Q to base that opinion on? A I think that MS. O'DELL:    I'm sorry. A Ms. O'Dell may be looking for it. But there is there is such a document. I found it. MR. FROST: Q What document are you looking at? A (Produces document.) Q Which one are you referring to it as? This one, the J&J Exhibit 4. MS. O'DELL:    That's what I've I've seen it referred to as is Exhibit 4. I'm sure there are other transcripts that have referred to it various ways. MR. FROST:    Okay. We'll call it the J&J Exhibit Exhibit J&J-4 for now. Q Do you mind if I read this, sir?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	page A We're done with IARC? Q Yeah, we're done for now. I'd keep that close. I think that comes up A Okay. Q a bunch of times, but A Okay. Which page did you say? Nine? Q Page 5. A Oh, 5. Okeydoke. Q In the second paragraph you note at the bottom that, "Talc was sourced from the following Vermont mines from 1965 to 2003," and the first one you include is Johnson. A Right. Q Is that a mistake, sir, or do you have any evidence to show that talc ever was sourced by Johnson & Johnson for talcum powder from the Johnson mine? A I think that there's a document that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A No. I think Q to base that opinion on? A I think that MS. O'DELL:    I'm sorry. A Ms. O'Dell may be looking for it. But there is there is such a document. I found it. MR. FROST: Q What document are you looking at? A (Produces document.) Q Which one are you referring to it as? This one, the J&J Exhibit 4. MS. O'DELL:    That's what I've I've seen it referred to as is Exhibit 4. I'm sure there are other transcripts that have referred to it various ways. MR. FROST:    Okay. We'll call it the J&J Exhibit Exhibit J&J-4 for now.

43 (Pages 166 to 169)

	Page 170		Page 172
1	there's actually the mention of the Johnson mine	1	A Right.
2	and the fact that there was some cosmetic talc	2	Q or the numbers of talc that are
3	production there.	3	coming from the Johnson mine.
4	Q Okay. I see what you're talking about	4	A Right.
5	here, sir.	5	Q And it says Grade 500 and Grade 549.
6	MS. O'DELL:	6	A Right.
7	I think he may be talking about another	7	Q What evidence do you have to show that
8	page, Jack. Take a look at the whole thing.	8	Grade 500 and Grade 549 were actually utilized by
9	MR. FROST:	9	Johnson & Johnson in its cosmetic talcum powder
10	We'll mark this as whatever exhibit	10	products at issue in this case?
11	we're on. Thirteen?	11	MS. O'DELL:
12	Just put it there. I was gonna say,	12	Object to the form.
13	we'll we'll add another exhibit number to	13	A I'm not saying that.
14	this this document when	14	MR. FROST:
15	MS. O'DELL:	15	Q Okay. And, in fact, in most of the
16	Might be worthwhile to put Cook 13 on	16	documents, and you refer to it in your report as
17	it or something like that.	17	Grade 66, is the Vermont ore that was used by
18	MR. FROST:	18	Johnson & Johnson; correct?
19	That's right. Oh, it says "Cook."	19	A I think so.
20	MS. O'DELL:	20	
21	Oh, it does?		Q Further down on page 5 of your
22	(DEPOSITION EXHIBIT NUMBER 13	21	report it's the end of the fourth paragraph
23	WAS MARKED FOR IDENTIFICATION.)	22	A Okay.
24	MR. FROST:	23	Q you state, "There's ample evidence
		24	that the main and east Argonaut ore bodies are
	Page 171		D 153
	~		Page 173
1	Q Okay. I hand you this document.	1	segments of the same body" sorry - "same ore
1 2		1 2	
	Q Okay. I hand you this document.		segments of the same body" sorry - "same ore
2	Q Okay. I hand you this document. A Okay. Thank you, sir.	2	segments of the same body" sorry - "same ore body swarm, making them and talc derived from
2	<ul><li>Q Okay. I hand you this document.</li><li>A Okay. Thank you, sir.</li><li>Q And, so, you're relying on, it looks</li></ul>	2 3	segments of the same body" sorry - "same ore body swarm, making them and talc derived from them essentially equivalent."
2 3 4	<ul> <li>Q Okay. I hand you this document.</li> <li>A Okay. Thank you, sir.</li> <li>Q And, so, you're relying on, it looks like, the second page of it, if you want to open</li> </ul>	2 3 4	segments of the same body" sorry - "same ore body swarm, making them and talc derived from them essentially equivalent."  A Right.
2 3 4 5	Q Okay. I hand you this document. A Okay. Thank you, sir. Q And, so, you're relying on, it looks like, the second page of it, if you want to open the document.	2 3 4 5	segments of the same body" sorry - "same ore body swarm, making them and talc derived from them essentially equivalent."  A Right.  Q What do you mean by what's the
2 3 4 5 6	Q Okay. I hand you this document. A Okay. Thank you, sir. Q And, so, you're relying on, it looks like, the second page of it, if you want to open the document. MS. O'DELL:	2 3 4 5 6	segments of the same body" sorry - "same ore body swarm, making them and talc derived from them essentially equivalent."  A Right.  Q What do you mean by what's the what's the measure of equivalency you're using
2 3 4 5 6 7	Q Okay. I hand you this document. A Okay. Thank you, sir. Q And, so, you're relying on, it looks like, the second page of it, if you want to open the document. MS. O'DELL: Why why don't you take a look,	2 3 4 5 6 7	segments of the same body" sorry - "same ore body swarm, making them and talc derived from them essentially equivalent."  A Right.  Q What do you mean by what's the what's the measure of equivalency you're using here?
2 3 4 5 6 7 8	Q Okay. I hand you this document. A Okay. Thank you, sir. Q And, so, you're relying on, it looks like, the second page of it, if you want to open the document. MS. O'DELL: Why why don't you take a look, Doctor, and MR. FROST:	2 3 4 5 6 7 8	segments of the same body" sorry - "same ore body swarm, making them and talc derived from them essentially equivalent."  A Right.  Q What do you mean by what's the what's the measure of equivalency you're using here?  A The Argonaut ore body is actually a
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44 (Pages 170 to 173)

	Page 174		Page 176
1	A that word in geology.	1	sure
2	Q use use "equivalent"?	2	Would you finish, Doctor, and then you
3	A Yeah.	3	can go, Jack? I'm sorry. It just
4	Q So is the equivalency purely that they	4	MR. FROST:
5	form from the same, you know, the general the	5	Yeah.
6	same general formation deposit?	6	MS. O'DELL:
7	A Right. I mean	7	seems like he wasn't finished
8	MS. O'DELL:	8	trying
9	Object to the form.	9	MR. FROST:
10	A Yeah. Your own documents indicate	10	Oh. I thought he finished.
11	this. You know, there's the 2008 report on	11	MS. O'DELL:
12	Argonaut that goes through the geology. But	12	to explain what he was saying.
13	you've got you've got geologic data that goes	13	A Yeah. Well, yeah, to sum it up, I
14	back, I guess, to 1973 or '4 related to Argonaut	14	would say that Argonaut is is looking at one
15	when it was even an underground mine. And it's	15	large ore deposit that's being mined in two pits
16	pretty clear that, as mining progressed there,	16	that are separated, because part of the
17	that there was one very large ore body there.	17	serpentinite was not altered to talc. And, so,
18	And but it has a piece of serpentinite left,	18	it's in place and it kind of protrudes in, and
19	as a as a lot of these things do.	19	you've got the two big pits on either side of it.
20	Because the ore-forming process works	20	MR. FROST:
21	in toward the toward the center of the	21	Q And you're not necessarily saying that
22	serpentinite, hoping to eat it up entirely.	22	the talc from one pit is, you know, exactly the
23	You know, ideally, there wouldn't be any	23	same as the other. They don't have the same
24	serpentinite left. That doesn't happen often.	24	they don't necessarily have the same percentage
21	serpentime fert. That doesn't happen often.		they don't necessarily have the same percentage
	Page 175		Page 177
1	Page 175 MR. FROST:	1	Page 177 of talc, the same percentage of other minerals,
1 2		1 2	
	MR. FROST:	l .	of talc, the same percentage of other minerals, you know, chlorite, for example, things like
2	MR. FROST: Q Yeah. I I think we can both agree	2	of talc, the same percentage of other minerals,
2	MR. FROST: Q Yeah. I I think we can both agree that A Sure.	2 3	of talc, the same percentage of other minerals, you know, chlorite, for example, things like that; right? MS. O'DELL:
2 3 4	MR. FROST: Q Yeah. I I think we can both agree that	2 3 4	of talc, the same percentage of other minerals, you know, chlorite, for example, things like that; right?  MS. O'DELL:  Object to the form.
2 3 4 5	MR. FROST:  Q Yeah. I I think we can both agree that  A Sure.  Q you tend to have a serpentinite	2 3 4 5	of talc, the same percentage of other minerals, you know, chlorite, for example, things like that; right?  MS. O'DELL:  Object to the form.  A I think you can go to any of the mines
2 3 4 5 6	MR. FROST:  Q Yeah. I I think we can both agree that  A Sure.  Q you tend to have a serpentinite core  A Sure.	2 3 4 5 6	of talc, the same percentage of other minerals, you know, chlorite, for example, things like that; right?  MS. O'DELL:  Object to the form.  A I think you can go to any of the mines and say that.
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45 (Pages 174 to 177)

	Page 178		Page 180
1	you talk about "The Johnson mine as well as the	1	A And, so, the the loader operator has
2	Hammondsville, Hamm, Rainbow, and Argonaut mines	2	got to make some some very important decisions
3	exploited talc deposits that are closely	3	as as he's mining. And and in many mines
4	associated with serpentinite bodies. Asbestos	4	it's up to the geologist or the mine
5	minerals, including chrysotile, actinolite,	5	superintendent to make sure the loader operator
6	tremolite and anthophyllite, occur in	6	knows where the ore is. And oftentimes they use
7	talc-bearing serpentinites."	7	spray paint, because the geologist may be may
8	And you're saying that, as a	8	be pretty good about knowing where you've got
9	generalization, that, you know, serpentinite	9	chlorite-rich rock, or maybe he's seen some
10	obviously is a serpentine mineral, but	10	asbestos. And, so, he'll spray-paint a line and
11	So you're not saying you're not	11	tell the operator, "Do not cross that line."
12	saying that every deposit that has converted from	12	Q And, then, that's what I was gonna say.
13	serpentinite will always have each one of these	13	It's not the miner himself who's determining
14	particular minerals in it; correct?	14	it's not the guy who's the load operator who is
15	A No, I'm not saying that.	15	saying where to go. There's actually a geologist
16	Q And I think we just talked about you	16	or a mine planner or a supervisor?
17	have to look at the local geology; right?	17	A I said there should be.
18	A That's correct.	18	Q Okay.
19	Q Turning to page 6, under "Mining and	19	A I didn't say there was. We can always
20	Talc Composition"	20	hope that there is.
21	A Okay.	21	Q So
22	Q third paragraph down starts, "On a	22	A But, in reality, it isn't always the
23	daily basis."	23	case.
24	A Okay.	24	Q But, in general mine theory, there
	Page 179		Page 181
1	Q Okay. "On a daily basis, the boundary	1	should be a geologist, a supervisor, or somebody
2			should be a geologist, a supervisor, or someouty
	between ore and waste is often determined	2	who comes up with the daily shift plan or the
3	visually by mining equipment operator based on	3	who comes up with the daily shift plan or the short-term mine plan; correct?
4	visually by mining equipment operator based on his experience with that particular ore type. It	3 4	who comes up with the daily shift plan or the short-term mine plan; correct?  A The yes, there should be someone
4 5	visually by mining equipment operator based on his experience with that particular ore type. It is a common practice for some mines for the	3 4 5	who comes up with the daily shift plan or the short-term mine plan; correct?  A The yes, there should be someone that alerts the person doing the mining to what
4 5 6	visually by mining equipment operator based on his experience with that particular ore type. It is a common practice for some mines for the geologists to spray paint lines or otherwise mark	3 4 5 6	who comes up with the daily shift plan or the short-term mine plan; correct?  A The yes, there should be someone that alerts the person doing the mining to what he should be mining and what he should be be
4 5 6 7	visually by mining equipment operator based on his experience with that particular ore type. It is a common practice for some mines for the geologists to spray paint lines or otherwise mark the boundaries between ore and non-ore. Although	3 4 5 6 7	who comes up with the daily shift plan or the short-term mine plan; correct?  A The yes, there should be someone that alerts the person doing the mining to what he should be mining and what he should be be telling the train operator or whatever, take this
4 5 6 7 8	visually by mining equipment operator based on his experience with that particular ore type. It is a common practice for some mines for the geologists to spray paint lines or otherwise mark the boundaries between ore and non-ore. Although the miner" – I'm sorry – "although, to the	3 4 5 6 7 8	who comes up with the daily shift plan or the short-term mine plan; correct?  A The yes, there should be someone that alerts the person doing the mining to what he should be mining and what he should be be telling the train operator or whatever, take this load to the dump.
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46 (Pages 178 to 181)

#### Page 184 Page 182 1 you know, I think nowadays, I believe they use you write, "In short, it is almost impossible to 2 2 GPSs and things like that, and the buckets tell operate a mine in commodities that occur in 3 3 them exactly where to go; right? relatively small, irregular deposits such as 4 MS. O'DELL: 4 high-quality talc without periodically 5 5 Object to the form. incorporating host rock, low-grade ore, and/or 6 There are places in the world where you 6 otherwise undesirable ore into the material being Α 7 7 can do that. I'm not sure that that's -- that removed from the mine and processed." 8 8 that would be easy to do in a talc open-pit Okay. So my question there is: On 9 9 operation. what basis are we defining the possibility? Are 10 MR. FROST: 10 you talking about on an hourly basis, a shift, a 11 But, you know, that's just one of the 11 day, a month, over the life of the mine? 12 ways, you know. Another visual cue is an 12 Well, you know, I'm tempted to say "All 13 13 engineer is, you know, painting lines so that the of the above," but that's not really -- that was operator knows generally which direction to go 14 not really the way I was saying that. 14 15 and where to stop loading ore talc; correct? 15 That's a statement that says that when 16 16 Α Correct. And -- and color is -- is you've got an irregular ore body of variable 17 17 used pretty much everywhere for talc. If you -composition, it's not possible to mine one grade 18 I mean, obviously, you -- you need high 18 of rock exclusively, day in and day out, without 19 whiteness, high brightness. And talc, once you 19 having bits and pieces of adjacent wall rock. 20 20 begin to get chlorite in it or accessory I mean, in the underground mine, every 21 21 dolomite, you can begin to make your talc gray, time they shoot, you've got to go in with a steel 2.2 22 and -- and suddenly you're -- you've got a bar and tap the roof and listen for loose rocks 23 product that, no matter what you do to it in the 23 or you're -- you're fixing to die. 24 24 And if you're mining over near the edge mill, you're not gonna get your color right. Page 183 Page 185 1 Q Uh-huh. 1 of the ore body, that loose rock on the ceiling 2 2 could be black wall. And -- and you've got to And, so, it may be simply a matter of 3 color. And if that's all it is, then a loader 3 scale it down. That rock is coming down into 4 4 operator may -- may very well be able to handle your ore. And the miner doesn't -- he's not 5 5 it. gonna get it out. 6 6 Q Okay. And, so, the point is that -- that 7 But if it's something else 7 in -- the reality of mining is such that you --Α 8 mineralogically, he may be completely clueless 8 you don't go out with tweezers and pick the best 9 and need someone, likely a geologist or the mine 9 stuff out. You know, mining is a -- is a -- a 10 10 superintendent, to tell him what to do. process where you -- you come out of a hole with 11 Okay. You'd agree with me it's, 11 hundreds of tons of rock a day. And -- and to 12 you know, it's more than just the guy who's doing 12 think that -- that every pound that makes up that 13 13 the -- the loader. There's a whole process in hundreds of tons is gonna be the purest, best, 14 place, typically, at mines to figure out how to 14 high-grade talc or whatever ore that there is 15 15 follow the ore body and what to mine and what to is -- it just doesn't work like that. 16 waste: correct? 16 Okay. And, in fact --17 17 There's -- there's --Sorry. 18 MS. O'DELL: 18 Well, and I was -- I was gonna add that 19 19 Object to the form. most mines have very specific quality control 20 Yes. 20 programs that -- that try to make sure that they Α 21 MR. FROST: 21 are getting the best they can get. But I don't 22 22 Q Okay. know of -- of any mine I've ever been associated 23 23 A There is supposed to be. with that didn't have occasional issues with --24 24 Q At the bottom of that page, on page 6, with wall rock or -- or a big included xenolith

47 (Pages 182 to 185)

	Page 186		Page 188
1	that they were unaware of getting blasted in with	1	MS. O'DELL:
2	their product.	2	Object to the form.
3	And in an open pit it's even worse	3	A It depends on how your mill is set up.
4	because, you know, you can try as much as you can	4	There are mills that might not might not
5	to to stay in ore, but if you've got an	5	handle the chlorite-rich cinders. Because when
6	irregular surface that marks the boundary between	6	you when you crush and grind chlorite, it will
7	talc and schists, let's say, your your drill	7	tend to report with talc in a in a flotation
8	cuttings may not tell you that unless you really	8	plant.
9	have somebody looking at drill cuttings for your	9	Q But, again, my question was more
10	blast holes every single day.	10	general than that.
11	Now, in the quarries that I work on, we	11	A Okay.
12	blast about sometimes once a week, sometimes once	12	Q It's when done properly, the point of
13	every two weeks. We blast 40- or 50,000 tons at	13	sorting and beneficiation is to remove these
14	a shot, which would be much larger than at the	14	excess rocks and things that end up in the ores;
15	talc mine.	15	correct?
16	But but when we blast, we always	16	MS. O'DELL:
17	find material that we weren't anticipating, and	17	Object to the form.
18	we've got to get rid of it.	18	MR. FROST:
19	Q Sure. And	19	Q That's that's why you do sorting and beneficiation?
20	MS. O'DELL:	20	
21	Jack, do you mind if we go off the	21 22	MS. O'DELL:
22	record just for a second?		Object to the form.
23	MR. FROST:	23	A The sorting, yes. And beneficiation in
24	Sure.	24	general, you're you're correct. I wouldn't
	Page 187		Page 189
1	MS. O'DELL:	1	have worded it that way, but, yes. I mean, the
2	And if you need to ask a couple I	2	object of beneficiation is to make what goes in
3	don't mean to	3	better when it comes out.
4	MR. FROST:	4	MR. FROST:
5	Yeah, I was going to say, do you mind	5	Q Okay.
6	if I ask two questions?	6	A So, from that standpoint, sure.
7	MS. O'DELL:	7	Q We can take a break.
8	Sure.	8	VIDEOGRAPHER:
9	MR. FROST:	9	Going off the record. The time is
10	Then we can go off.	10	11:52 a.m.
11	Q And, you know, in mining, that's sort	11	(OFF THE RECORD.)
12	of expected, and that's why you have, on the back	12	VIDEOGRAPHER:
13	end, you have sorting, beneficiation processes,	13	We're back on the record. The time is
14	things like that; correct?	14	12:11 p.m.
1 -	MS. O'DELL:	15	MR. FROST:
15	Object to the form.	16	Q Doctor, could you turn to page 7 of
16			your report?
16 17	A Correct.	17	· ·
16 17 18	A Correct. MR. FROST:	18	A Okay.
16 17 18 19	A Correct.  MR. FROST:  Q And you'd also agree with me that,	18 19	A Okay. Q And it's the paragraph that starts
16 17 18 19 20	A Correct.  MR. FROST:  Q And you'd also agree with me that, you know, the point of sorting, beneficiation,	18 19 20	A Okay.  Q And it's the paragraph that starts "Imerys encountered difficulties."
16 17 18 19 20 21	A Correct.  MR. FROST:  Q And you'd also agree with me that, you know, the point of sorting, beneficiation, et cetera, when done properly, is to remove that	18 19 20 21	A Okay. Q And it's the paragraph that starts "Imerys encountered difficulties." A Right.
16 17 18 19 20 21	A Correct.  MR. FROST:  Q And you'd also agree with me that, you know, the point of sorting, beneficiation, et cetera, when done properly, is to remove that wall rock, host rock, things like that, you know,	18 19 20 21 22	<ul> <li>A Okay.</li> <li>Q And it's the paragraph that starts</li> <li>"Imerys encountered difficulties."</li> <li>A Right.</li> <li>Q Look at the last sentence of that. It</li> </ul>
16 17 18 19 20 21	A Correct.  MR. FROST:  Q And you'd also agree with me that, you know, the point of sorting, beneficiation, et cetera, when done properly, is to remove that	18 19 20 21	A Okay. Q And it's the paragraph that starts "Imerys encountered difficulties." A Right.

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	Page 190		Page 192
1	fiber-bearing zones in Vermont was emphasized in	1	there was a difference between the ore they
2	a Cyprus interoffice correspondence."	2	wanted to send to the mill and the the fibrous
3	I read that right?	3	waste ore; right?
4	A Yes.	4	MS. O'DELL:
5	Q And, if you look down, I take it that's	5	Object to the form.
6	the that's the quote from the correspondence	6	A That is correct, obviously.
7	we're talking about, the Imerys 219720 below	7	MR. FROST:
8	that?	8	Q Okay. And that it shows that they had,
9	A Right.	9	in fact, you know, put in a selective mining
10	Q Tremolite and use deposits as	10	program to make sure that they weren't capturing
11	encountered?	11	these fiber zones within the ore sent to the
12	The second sentence reads, "Cyprus	12	mills; right?
13	maintains a selective mining program in Vermont	13	MS. O'DELL:
14	that is directed towards exclusion of all these	14	Object to the form.
15	potentially fiber-bearing zones when the ore is	15	A The the implementation of the
	* *	16	selective mining is is I think that that
16	sent to the mills, and those suspect tonnages,	17	was part and parcel of of several agreements
17	including the associated talc, are left in the	18	that actually stated that in order to to
18	pit walls or sent to waste piles."	19	make these operations worthwhile and profitable.
19	Right?	20	they had to have selective mining. And, so, from
20	A I see that.	21	that from that standpoint, they have to
21	Q So you agree with me that this	22	they have to do it. They have to they had
22	indicates that Imerys knew that they had to be	23	agreed to do it.
23	selective of the mining in the	24	MR. FROST:
24	MR. FROST:	24	WR. I ROSI.
		1	
	Page 191		Page 193
1	Page 191 Yeah.	1	Page 193 Q Okay. And, in fact
1 2		1 2	
	Yeah. MS. O'DELL:	1	Q Okay. And, in fact
2	Yeah.	2	Q Okay. And, in fact Sorry.
2	Yeah. MS. O'DELL: I'm just putting in front of him the	2 3	<ul> <li>Q Okay. And, in fact</li> <li>Sorry.</li> <li>A And, so, you know, the point that I would make is that that we asked for all the</li> </ul>
2 3 4	Yeah. MS. O'DELL: I'm just putting in front of him the documents.	2 3 4	<ul> <li>Q Okay. And, in fact</li> <li>Sorry.</li> <li>A And, so, you know, the point that I would make is that that we asked for all the</li> </ul>
2 3 4 5	Yeah.  MS. O'DELL:     I'm just putting in front of him the documents.  MR. FROST:     The documents? That's fine.	2 3 4 5	Q Okay. And, in fact Sorry. A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them.
2 3 4 5 6	Yeah.  MS. O'DELL:     I'm just putting in front of him the documents.  MR. FROST:     The documents? That's fine.  Q You agree with me with that statement?	2 3 4 5 6	Q Okay. And, in fact Sorry. A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them. Q Well
2 3 4 5 6 7 8	Yeah.  MS. O'DELL:     I'm just putting in front of him the documents.  MR. FROST:     The documents? That's fine.  Q You agree with me with that statement?  You know, that shows that Imerys knew that they	2 3 4 5 6 7 8	Q Okay. And, in fact Sorry.  A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them.  Q Well A And and, so, if we if we don't
2 3 4 5 6 7 8 9	Yeah.  MS. O'DELL:    I'm just putting in front of him the documents.  MR. FROST:    The documents? That's fine.  Q You agree with me with that statement?  You know, that shows that Imerys knew that they had to they couldn't use all of the ore body;	2 3 4 5 6 7 8	Q Okay. And, in fact Sorry.  A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them.  Q Well A And and, so, if we if we don't have a way to verify the fact that they
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2 3 4 5 6 7 8 9 10 11	Yeah.  MS. O'DELL:     I'm just putting in front of him the documents.  MR. FROST:     The documents? That's fine.  Q You agree with me with that statement?  You know, that shows that Imerys knew that they had to they couldn't use all of the ore body; correct?  MS. O'DELL:     Object to the form.	2 3 4 5 6 7 8 9 10 11	Q Okay. And, in fact Sorry. A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them. Q Well A And and, so, if we if we don't have a way to verify the fact that they implemented a selective mining, then then we're left with with, you know, with a lot of data that that suggests that that maybe
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2 3 4 5 6 7 8 9 110 111 1213 144 155	Yeah.  MS. O'DELL:     I'm just putting in front of him the documents.  MR. FROST:     The documents? That's fine.  Q You agree with me with that statement? You know, that shows that Imerys knew that they had to they couldn't use all of the ore body; correct?  MS. O'DELL:     Object to the form.  A That's correct.  MR. FROST: Q And it also, you know, indicates that they could tell the difference between what was,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q Okay. And, in fact Sorry.  A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them.  Q Well A And and, so, if we if we don't have a way to verify the fact that they implemented a selective mining, then then we're left with with, you know, with a lot of data that that suggests that that maybe they didn't. Maybe they just saw white rock and went for it.  Q Okay. And, again, you're speculating on whether or not they implemented this or not
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2 3 4 5 6 7 8	Yeah.  MS. O'DELL:     I'm just putting in front of him the documents.  MR. FROST:     The documents? That's fine.  Q You agree with me with that statement? You know, that shows that Imerys knew that they had to they couldn't use all of the ore body; correct?  MS. O'DELL:     Object to the form.  A That's correct.  MR. FROST: Q And it also, you know, indicates that they could tell the difference between what was, you know, effectively the ore and the fibrous waste; right?  MS. O'DELL:     Object to the form.  A Would you ask it again?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q Okay. And, in fact Sorry.  A And, so, you know, the point that I would make is that that we asked for all the documents that would demonstrate this, and we did not receive them.  Q Well A And and, so, if we if we don't have a way to verify the fact that they implemented a selective mining, then then we're left with with, you know, with a lot of data that that suggests that that maybe they didn't. Maybe they just saw white rock and went for it.  Q Okay. And, again, you're speculating on whether or not they implemented this or not because you haven't seen all of the data; right?  MS. O'DELL: Object to the form.  A We asked for the data. MR. FROST:

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you all the documents?  A I asked them to ask for them.  Q Okay. And you have no way to verify whether what the selective set of documents they gave you contains all of the data that might relate to selective mining; correct?  MS. O'DELL:  Object to the form.  A I have no way to know. But but it wouldn't make sense for them not to to give me everything they've got that I asked for.  MR. FROST:  Q Well, except for the fact that they're pursuing theories in these cases, so maybe they selected the documents that specifically support their theories; correct? That's a possibility.  A Well, I'm not sure that what they sent me supports their theories.  Q Okay. But, again, without speculating, you can't tell me one way or the other what the full intent was of the selective mining program at Imerys; right? You just don't know if there	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	being done and how potentially effective it was at all stages of the mine life; correct?  MS. ODELL:  Object to the form.  A The data I have supports the opinion that I have that that there may not have been sufficient selective mining to eliminate all of the the waste that should have been eliminated.  MR. FROST:  Q Okay. And you'd agree that that opinion is solely based on the data you had available to you?  A That's correct.  Q And, again, I think we've established you'd be open to reviewing other data, and if it  A Absolutely.  Q supported a different opinion, you'd
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Q Okay. But, again, without speculating, you can't tell me one way or the other what the full intent was of the selective mining program	19	
you can't tell me one way or the other what the full intent was of the selective mining program		Supported a different opinion, you a
full intent was of the selective mining program	20	be willing to change your opinion based on that
	21	data?
	22	MS. O'DELL:
was more, if there's less. You know, you can't	23	Object to the form.
tell because you don't know if you have all the	24	A I'm I'm willing to look at at any
		in the state of th
Page 195		Page 197
documents. Is that fair?	1	additional data that comes along.
MS. O'DELL:	2	MR. FROST:
Object to the form.	3	Q Turn to page 8 of your report, please,
A I don't I would think that I don't	4	last paragraph on the page.
have all the documents. But in in a mining	5	A Okay.
scenario, it's it's common for documents to	6	Q About halfway down, it's a sentence
get destroyed once you're past where you are	7	that starts, "It is known that Rio Tinto"
mining.	8	A Okay.
And, so, it's possible that that	9	Q "identified problems with long
there were documents that don't exist anymore.	10	Guangxi talc ores in 1997 which resulted in the
MR. FROST:	11	recommendation that a Luzenac representative be
	12	present at the mine during the mining and sorting
	13	process."
	14	A Correct.
	15	Q Correct?
		And then you cite Imerys-A15758?
	17	A Right. Correct.
Johnson.		MS. O'DELL:
		Are you gonna mark that, Jack?
		I'll take this one.
A That that's a difficult thing to do		What's the number?
		MR. FROST:
selectively.	23	Fourteen?
s gr t N () A ir t a J ()	scenario, it's it's common for documents to get destroyed once you're past where you are mining.  And, so, it's possible that that here were documents that don't exist anymore.  MR. FROST:  Q Okay.  A But selective mining is gonna be tough an some of these, especially underground. I mean, it's pretty clear that it that it hat they needed to get get out of underground as quickly as they could at Hammondsville and at Johnson.  Q Okay.  A That that's a difficult thing to do selectively.  Q You'd agree with me, one way or the	scenario, it's it's common for documents to get destroyed once you're past where you are mining.  And, so, it's possible that that here were documents that don't exist anymore.  MR. FROST:  Q Okay.  A But selective mining is gonna be tough n some of these, especially underground. I  mean, it's pretty clear that it that it hat they needed to get get out of underground as quickly as they could at Hammondsville and at folmson.  Q Okay.  A That that's a difficult thing to do selectively.  Q You'd agree with me, one way or the

50 (Pages 194 to 197)

	Page 198		Page 200
1	Yes.	1	address it, they're talking about the Cimpact 10
2	MS. O'DELL:	2	problems that
3	Thank you.	3	A Yeah.
4	(DEPOSITION EXHIBIT NUMBER 14	4	Q they had at Grand Island.
5	WAS MARKED FOR IDENTIFICATION.)	5	MS. O'DELL:
6	MR. FROST:	6	Excuse me. Object to the form.
7	Q And I'll turn your attention	7	A Yeah.
8	specifically under under "Introduction."	8	But if they weren't having quality
9	A Okay.	9	control problems at both places, why would they
10	Q Do you agree with me it talks about	10	mention both places? Doesn't make sense.
11	quality control issues with Cimpact 10?	11	MR. FROST:
12	A Okay.	12	Q What do you mean by "both places"?
13	Q And you can review the rest of it, but	13	A In the summary. They're talking about
14	will you also agree with me that the Cimpact 10	14	the Cim
15	ore is different than the Guangxi number 1 and	15	Well, they're talking about Guangxi 1,
16	the Guangxi number 2 ores?	16	and, so, you've got two separate things you're
17	A I think it is.	17	talking about, but they're talking about issues
18	Q So you agree that the problems	18	with both of them.
19	identified that this document are specifically	19	Q Where in this document does it point
20	addressing are the Cimpact 10 quality control	20	out that they have problems with the testing of
21	issues; correct?	21	the Guangxi 1 ore?
22	A Hang on a sec.	22	A In the in the summary of this
23	MS. O'DELL:	23	document.
24	If you need a minute to review the	24	Q And you're talking about where it talks
	Page 199		Page 201
1		1	
	document, Doctor, feel free to do that.	1	about, at the very beginning
2	document, Doctor, feel free to do that.  A In the introduction, they are fairly	1 2	about, at the very beginning A Right.
	A In the introduction, they are fairly		A Right.
2	A In the introduction, they are fairly clear that they're worried about Guangxi, not	2	A Right.
2	A In the introduction, they are fairly	2 3	A Right. Q where they say "New specifications
2 3 4	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact.	2 3 4	A Right. Q where they say "New specifications should go into," and they're talking about the
2 3 4 5	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact. MR. FROST:	2 3 4 5	A Right.  Q where they say "New specifications should go into," and they're talking about the Guangxi number 1 crew?
2 3 4 5 6	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact.  MR. FROST:  Q But they're talking about the quality	2 3 4 5 6	A Right. Q where they say "New specifications should go into," and they're talking about the Guangxi number 1 crew? A Why would they need any specifications
2 3 4 5 6 7	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact.  MR. FROST: Q But they're talking about the quality control problems with Cimpact; correct?	2 3 4 5 6 7	A Right. Q where they say "New specifications should go into," and they're talking about the Guangxi number 1 crew? A Why would they need any specifications if they weren't having problems?
2 3 4 5 6 7 8	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact.  MR. FROST: Q But they're talking about the quality control problems with Cimpact; correct? A Well, it MS. O'DELL: Object to the form.	2 3 4 5 6 7 8	A Right. Q where they say "New specifications should go into," and they're talking about the Guangxi number 1 crew? A Why would they need any specifications if they weren't having problems? Q But, again A That's the way I read it. Q I was going to say, but that's how
2 3 4 5 6 7 8 9	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact.  MR. FROST: Q But they're talking about the quality control problems with Cimpact; correct? A Well, it MS. O'DELL:	2 3 4 5 6 7 8	A Right. Q where they say "New specifications should go into," and they're talking about the Guangxi number 1 crew? A Why would they need any specifications if they weren't having problems? Q But, again A That's the way I read it. Q I was going to say, but that's how you're reading it, but you agree with me the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A In the introduction, they are fairly clear that they're worried about Guangxi, not Cimpact.  MR. FROST:  Q But they're talking about the quality control problems with Cimpact; correct?  A Well, it  MS. O'DELL:  Object to the form.  A Well, it's not just them. It's and I'm reading up in the summary. It's indicated the need for better technical and probably mineralogical specifications for the Guangxi number 1 crude. So they're including at least some Guangxi in this.  MR. FROST:  Q Well, they're talking about they want to implement a program for both Cimpact and Guangxi; correct?  A Right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Right. Q where they say "New specifications should go into," and they're talking about the Guangxi number 1 crew? A Why would they need any specifications if they weren't having problems? Q But, again A That's the way I read it. Q I was going to say, but that's how you're reading it, but you agree with me the document itself only talks about problems that have come up with the Cimpact 10 crew A Yeah, after the MS. O'DELL: Excuse me. Just let him finish and then give me a minute. Okay? Are you finished with your question? MR. FROST: Yes. MS. O'DELL:

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	Page 202		Page 204
1	Q You'd agree with me the only specific,	1	Object to the form.
2	you know	2	MR. FROST:
3	When they actually talk about the	3	Q Okay. And, again, if we look at
4	problems that have come up, they're only talking	4	Grand Island, it talks about June 24 samples of
5	about problems that have been identified in the	5	Cimpact 10 lot.
6	Cimpact 10 or Cimpact 710 ore; correct?	6	That's on the bottom of page 2.
7	MS. O'DELL:	7	MS. O'DELL:
8	Object to the form.	8	Where are you reading?
9	A Well, I I don't agree with that at	9	MR. FROST:
10	all. If you go to the second page, about midway	10	Q Right? I've read the document
11	down, they start again about Guangxi number 1	11	correctly?
12	crude.	12	MS. O'DELL:
13	MR. FROST:	13	Okay. Were you on page 2, not page 1?
14	Q Okay.	14	MR. FROST:
15	A And, so, I mean, I'm not sure that	15	Yes.
16	why we're making why we're saying it's only	16	MS. O'DELL:
17	Cimpact, because it's - they're talking about	17	And, Dr. Cook, were you I mean,
18	Guangxi crude here.	18	don't respond that he's read it correctly
19	Q But where are they talking about	19	MR. FROST:
20	quality control problems they've identified with	20	Yeah.
21	Guangxi 1 crude?	21	MS. O'DELL:
22	A I I think that's what they're	22	No, I don't mean this pejoratively.
23	addressing. You know, they're trying to	23	MR. FROST:
24	respecify what they need.	24	No. I think the witness and I were on
	Page 203		Page 205
1	Q But you're speculating, based on new	1	the same page.
2	specifications, that they have found some	2	MS. O'DELL:
3	undocumented problem with the Guangxi number 1	3	I don't think you were, because he
4	crude despite the fact that they only list issues		
		4	wasn't looking at that.
5	with the Cimpact 710?	4 5	wasn't looking at that.  So the I don't mean this in a
5 6	with the Cimpact 710?  A I'm not sure		So the I don't mean this in a pejorative sense
	with the Cimpact 710?	5	So the I don't mean this in a
6	with the Cimpact 710?  A I'm not sure	5 6	So the I don't mean this in a pejorative sense
6 7	with the Cimpact 710?  A I'm not sure  MS. O'DELL:  Object to the form.  A I'm not sure that's right. It looks to	5 6 7 8 9	So the I don't mean this in a pejorative sense MR. FROST:
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6 7 8 9	with the Cimpact 710?  A I'm not sure MS. O'DELL: Object to the form.  A I'm not sure that's right. It looks to me like this document is addressing Guangxi number 1 and the other.	5 6 7 8 9	So the I don't mean this in a pejorative sense MR. FROST: No. MS. O'DELL:
6 7 8 9 10	with the Cimpact 710?  A I'm not sure MS. O'DELL: Object to the form.  A I'm not sure that's right. It looks to me like this document is addressing Guangxi	5 6 7 8 9	So the I don't mean this in a pejorative sense MR. FROST: No. MS. O'DELL: but
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6 7 8 9 10 11	with the Cimpact 710?  A I'm not sure MS. O'DELL: Object to the form.  A I'm not sure that's right. It looks to me like this document is addressing Guangxi number 1 and the other.  MR. FROST: Q As far as the specifications; right? A Well, with the thought in mind that	5 6 7 8 9 10 11 12	So the I don't mean this in a pejorative sense MR. FROST: No. MS. O'DELL: but Let me finish. So if you there's a specific
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6 7 8 9 10 11 12 13	with the Cimpact 710?  A I'm not sure MS. O'DELL: Object to the form.  A I'm not sure that's right. It looks to me like this document is addressing Guangxi number 1 and the other.  MR. FROST: Q As far as the specifications; right? A Well, with the thought in mind that these need to be changed for some reason. Q Okay. And, again, it seems it's not	5 6 7 8 9 10 11 12 13 14	So the I don't mean this in a pejorative sense MR. FROST: No. MS. O'DELL: but Let me finish. So if you there's a specific question that you asked about page 2, I wanted to make sure that the doctor understood where you
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	with the Cimpact 710?  A I'm not sure MS. O'DELL: Object to the form.  A I'm not sure that's right. It looks to me like this document is addressing Guangxi number 1 and the other.  MR. FROST: Q As far as the specifications; right? A Well, with the thought in mind that these need to be changed for some reason. Q Okay. And, again, it seems it's not "seems." It says the document itself says the bases for the wanting to change are, quote, "after several episodes of quality control problems with the Cimpact 10 and product at the	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So the I don't mean this in a pejorative sense MR. FROST: No. MS. O'DELL: but Let me finish. So if you there's a specific question that you asked about page 2, I wanted to make sure that the doctor understood where you were in the document. MR. FROST: Sure. A You know, if you go beyond what you just read, I mean, there's more to this document than just that. If you go to the next page, there they are looking at Guangxi number 1 again
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	with the Cimpact 710?  A I'm not sure MS. O'DELL: Object to the form.  A I'm not sure that's right. It looks to me like this document is addressing Guangxi number 1 and the other.  MR. FROST: Q As far as the specifications; right? A Well, with the thought in mind that these need to be changed for some reason. Q Okay. And, again, it seems it's not "seems." It says the document itself says the bases for the wanting to change are, quote, "after several episodes of quality control problems with the Cimpact 10 and product at the Grand Island during the first quarter of 1997."	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So the I don't mean this in a pejorative sense MR. FROST: No. MS. O'DELL: but Let me finish. So if you there's a specific question that you asked about page 2, I wanted to make sure that the doctor understood where you were in the document. MR. FROST: Sure. A You know, if you go beyond what you just read, I mean, there's more to this document than just that. If you go to the next page, there they

52 (Pages 202 to 205)

	Page 206		Page 208
1	A as if there's some issue there.	1	Object to object to the form.
2	Q Well, that's just showing the testing	2	A That's not what it says. It says it in
3	results, as it said. But the only place it ever	3	one sentence, but that one sentence is part of a
4	shows quality control problems is on page 1,	4	larger document that, past that one sentence, has
5	under the introduction; correct?	5	some analytical data for Guangxi 1, and it shows
6	MS. O'DELL:	6	something to be out of spec.
7	Object to the form.	7	And it it's a very simple thing.
8	A Hang on a second.	8	All they're saying is, "We need to tighten up our
9	You have to really wonder, because the	9	processes of quality control." They don't say
10	table that they've got here on page 3 shows	10	this is asbestos. They don't say it's heavy
11	silica out of spec for Guangxi 1.	11	metals. And what it really amounts to is a
12	So it seems to me that they that	12	little bit of chlorite in the talc.
13	they realized that they may have an issue and	13	Q Okay. And you agree with me it's not
14	that this document is simply pointing it out,	14	saying quality control. They're talking about
15	says, "Let's tighten things up."	15	changing the specifications.
16	MR. FROST:	16	MS. O'DELL:
17	Q Again, that's your interpretation of	17	Object to the form.
18	this document. It's clearly not what the	18	A If you don't want that to be quality
19	document says; correct?	19	control, okay.
20	MS. O'DELL:	20	MR. FROST:
21	Object to the form. Misstates the	21	Q Well, sure. I mean
22	A I'm not I'm not sure it doesn't say	22	A If that's what you say isn't quality
23	that. I mean, you read this part here correctly,	23	control, I'm gonna I'll
24	but there's more to the document beyond what you	24	MS. O'DELL:
	out indies more to the document beyond what you		No. OBLES.
	Page 207		Page 209
1	read.	1	No, don't
2	MR. FROST:	2	THE WITNESS:
3	Q Okay. It shows the testing results.	3	Okay. I don't agree with it.
4			Okay. I don't agree with it.
_	Again	4	MS. O'DELL:
5	Again A Right. And it shows something else	4 5	
			MS. O'DELL: Yeah. I mean, don't agree because
5	A Right. And it shows something else	5	MS. O'DELL:
5 6	A Right. And it shows something else Q Let's walk through it. You ready?	5 6	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you
5 6 7	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think.	5 6 7	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them.
5 6 7 8	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the	5 6 7 8	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure.
5 6 7 8 9	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within.	5 6 7 8 9	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS:
5 6 7 8 9	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are	5 6 7 8 9	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST:
5 6 7 8 9 10 11	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to	5 6 7 8 9 10 11	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine.
5 6 7 8 9 10 11	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to	5 6 7 8 9 10 11 12	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9.
5 6 7 8 9 10 11 12 13 14	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control?	5 6 7 8 9 10 11 12 13	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay.
5 6 7 8 9 10 11 12 13 14	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation	5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of
5 6 7 8 9 10 11 12 13 14 15	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself	5 6 7 8 9 10 11 12 13 14 15	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at
5 6 7 8 9 10 11 12 13 14 15 16	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this	5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the
5 6 7 8 9 10 11 12 13 14 15 16 17 18	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this has to do with quality control.	5 6 7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the flotation method utilized for decades in Vermont
5 6 7 8 9 10 11 12 13 14 15 16 17 18	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this has to do with quality control. Q Okay.	5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the flotation method utilized for decades in Vermont was not used but, rather, a series of grinding
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this has to do with quality control. Q Okay. A And they have included both types here.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree. MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the flotation method utilized for decades in Vermont was not used but, rather, a series of grinding and air classification processes."
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this has to do with quality control. Q Okay. A And they have included both types here. Q But, again, the document itself only	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree.  MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the flotation method utilized for decades in Vermont was not used but, rather, a series of grinding and air classification processes." A Yeah.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this has to do with quality control. Q Okay. A And they have included both types here. Q But, again, the document itself only talks about quality control problems with the	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree.  MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the flotation method utilized for decades in Vermont was not used but, rather, a series of grinding and air classification processes." A Yeah. Q Okay. You agree with me that flotation
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Right. And it shows something else Q Let's walk through it. You ready? A out of spec, I think. Q How do you know? Do you A Because they have the range that the analyses have to fall within. Q Okay. But does it say there are quality control issues with respect to A Well, I mean, what else is going on, other than quality control? Q But, again, that's your interpretation of this document. The actual document itself A It's my opinion that this that this has to do with quality control. Q Okay. A And they have included both types here. Q But, again, the document itself only	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Yeah. I mean, don't agree because with with the definitions of counsel if you don't agree with them. THE WITNESS: Sure. I don't agree.  MR. FROST: Q All right. That's fine. Move on to page 9. A Okay. Q Third paragraph down, "A review of milling and beneficiation practices employed at Imerys's Houston plant indicate that the flotation method utilized for decades in Vermont was not used but, rather, a series of grinding and air classification processes." A Yeah.

53 (Pages 206 to 209)

	Page 210		Page 212
1	A I agree.	1	A Yeah. It has to do with the type of
2	Q Okay. In fact, there are bunches of	2	mill. I mean, the mill was set up originally for
3	different types of beneficiation?	3	baryte, and and it uses a an interesting
4	A Correct.	4	air separation technique. And and I think
5	Q And the documents you cite here	5	it's probably very effective for talc.
6	specifically talk about how Imerys determined	6	But there's there's nothing in that
7	that flotation beneficiation was necessary for	7	type of a process that would address heavy metals
8	the Vermont ores; correct?	8	at all, unless the heavy metals were restricted
9	A Yeah. You use the flotation process if	9	to some extremely dense accessory mineral. And I
10	you if you've got a talc carbonate ore.	10	don't think we've got evidence for that in the
11	You've got to get rid of the carbonate.	11	Chinese talc.
12	Q Okay.	12	Q Okay. And what are you relying on to
13	A And, so, that's why you float.	13	say
14	Q So you agree with me the fact that they	14	Well, I guess strike that.
15	weren't using flotation on the Chinese ore	15	So is this limited, when we're talking
16	doesn't show that there was necessarily a	16	here, we're limiting it to the heavy metals?
17	breakdown of the process. They were just using a	17	MS. O'DELL:
18	different form of beneficiation?	18	Object to the form.
19	A Right. Right. There's no carbonate in	19	A No. I mean, the same is true if there
20	the to speak of in the in the Chinese ores.	20	was asbestos in any of the crude that came in.
21	Q Okay. The next paragraph down, you	21	Probably it would pass on through with the talc.
22	talk about quality control. Do you see where I	22	There's nothing set up there in Houston that
23	am? "Quality control issues are discussed"	23	- ·
24	A Okay.	24	would specifically cut the any asbestiform mineral out.
		24	nimerai out.
	Page 211		Page 213
1	Page 211 Q below in the report?	1	Page 213 MR. FROST:
1 2		1 2	MR. FROST: Q So you used the word "probably." Do
	<ul> <li>Q below in the report?</li> <li>A Sure, uh-huh.</li> <li>Q Sort of halfway through that sentence</li> </ul>		MR. FROST: Q So you used the word "probably." Do you have any scientific study or research to show
2	Q below in the report? A Sure, uh-huh.	2	MR. FROST:  Q So you used the word "probably." Do you have any scientific study or research to show that the various air beneficiation processes used
2	<ul> <li>Q below in the report?</li> <li>A Sure, uh-huh.</li> <li>Q Sort of halfway through that sentence</li> </ul>	2 3	MR. FROST: Q So you used the word "probably." Do you have any scientific study or research to show
2 3 4	<ul> <li>Q below in the report?</li> <li>A Sure, uh-huh.</li> <li>Q Sort of halfway through that sentence you said, you know it says, "makes it clear</li> </ul>	2 3 4	MR. FROST:  Q So you used the word "probably." Do you have any scientific study or research to show that the various air beneficiation processes used
2 3 4 5	<ul> <li>Q below in the report?</li> <li>A Sure, uh-huh.</li> <li>Q Sort of halfway through that sentence you said, you know it says, "makes it clear non-talc material such as asbestos and high</li> </ul>	2 3 4 5	MR. FROST: Q So you used the word "probably." Do you have any scientific study or research to show that the various air beneficiation processes used at the Houston mill would be completely incapable
2 3 4 5 6	Q below in the report? A Sure, uh-huh. Q Sort of halfway through that sentence you said, you know it says, "makes it clear non-talc material such as asbestos and high concentrations of some heavy metals are included	2 3 4 5 6	MR. FROST: Q So you used the word "probably." Do you have any scientific study or research to show that the various air beneficiation processes used at the Houston mill would be completely incapable of removing asbestos from the ore?
2 3 4 5 6 7	Q below in the report? A Sure, uh-huh. Q Sort of halfway through that sentence you said, you know it says, "makes it clear non-talc material such as asbestos and high concentrations of some heavy metals are included in the finished products."	2 3 4 5 6 7	MR. FROST: Q So you used the word "probably." Do you have any scientific study or research to show that the various air beneficiation processes used at the Houston mill would be completely incapable of removing asbestos from the ore? A Well, I didn't
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54 (Pages 210 to 213)

	Page 214		Page 216
1	A when I came in here, and I can't	1	MS. O'DELL:
2	remember them.	2	Object to the form.
3	Q Okay.	3	A Every spec sheet I've been given is out
4	A No, I can't remember them.	4	of is out of compliance.
5	Q So, sitting here today, you can't tell	5	MR. FROST:
6	me that?	6	Q See, that's a very different answer,
7	A No.	7	now, isn't it, between every single sample is out
8	Q Okay. Can you agree with me you've	8	of compliance versus every single sample that was
9	never actually yourself tested any	9	given to you by plaintiffs' counsel? Do you
10	A No.	10	agree?
11	Q Johnson & Johnson talcum powder?	11	MS. O'DELL:
12	MS. O'DELL:	12	Object to the form.
13	Let him finish with the question, sir.	13	A I'm not sure that they aren't the same
14	THE WITNESS:	14	thing.
15	I'm sorry.	15	MR. FROST:
16	A No, I have not.	16	Q You have no way to verify, so you
17	MR. FROST:	17	believe you've been shown every single sample of
18	Q And your role here isn't to testify	18	Vermont 66 that exists?
19	that any particular level of heavy metals made it	19	A I think that
20	into any finished product, like any	20	MS. O'DELL:
21	I'll strike I'll I'll rephrase	21	Excuse me. Object to the form.
22	that question.	22	Just note that's a very different
23	You're not here to offer an opinion	23	question.
24	that any particular bottle of Johnson's	24	MR. FROST:
	Page 215		Page 217
1	Johnson & Johnson talcum powder had any	1	Okay. You can object to the form.
2	particular level of heavy metals or asbestos in	2	MS. O'DELL:
3	it; right?	3	I will object to the form, because
4	MS. O'DELL:	4	that's a different
5	Object to the form.	5	A We asked for the results.
6			
	A I am.	6	MR. FROST:
7	MR. FROST:	7	MR. FROST: Q Okay.
7 8	MR. FROST: Q You're here to talk about individual	7 8	MR. FROST: Q Okay. A And we requested a set of data. And
7 8 9	MR. FROST: Q You're here to talk about individual bottles that were used by consumers?	7 8 9	MR. FROST: Q Okay. A And we requested a set of data. And the set of data we were given shows consistent
7 8 9 10	MR. FROST: Q You're here to talk about individual bottles that were used by consumers? A I'm not gonna say an individual bottle,	7 8 9 10	MR. FROST: Q Okay. A And we requested a set of data. And the set of data we were given shows consistent high levels of those three metals.
7 8 9 10 11	MR. FROST: Q You're here to talk about individual bottles that were used by consumers? A I'm not gonna say an individual bottle, but I will say this. If you take every analysis	7 8 9 10 11	MR. FROST: Q Okay. A And we requested a set of data. And the set of data we were given shows consistent high levels of those three metals. Q Would you be surprised if I told you
7 8 9 10 11 12	MR. FROST: Q You're here to talk about individual bottles that were used by consumers? A I'm not gonna say an individual bottle, but I will say this. If you take every analysis you've got of 66, every single one is out of spec	7 8 9 10 11 12	MR. FROST: Q Okay. A And we requested a set of data. And the set of data we were given shows consistent high levels of those three metals. Q Would you be surprised if I told you that there were hundreds and even thousands of
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55 (Pages 214 to 217)

	Page 218		Page 220
1	Object to the form.	1	for example, and you're basing this off of 19
2	A If there's thousands of	2	test results despite the fact the product has
3	MS. O'DELL:	3	been on the market for over a hundred years?
4	Excuse me. Excuse me.	4	MS. O'DELL:
5	Object to the form. Misstates the	5	Object to the form. Misstates his
6	record.	6	testimony.
7	A If there are thousands of additional	7	A Yeah. That that I don't see how
8	ones, then that implies I haven't seen them,	8	that question is relative to to anything
9	which is true.	9	because of the going-back-hundred-year idea. I
10	MR. FROST:	10	mean, probably it's true if you could go back a
11	Q Okay. And would that change your	11	hundred years. But I know that the data that
12	opinion? Because this this appears to be	12	we've got I mean, it's more than just the
13	based on the fact that you're saying every single	13 14	19-year collection of annual composites.
14	test you've seen is out of spec. Would it change		I mean, that's just a subset of a much
15 16	your opinion if you were to see a significant	15 16	larger data set we've got. I can't tell you how
16 17	collection of documents that showed a very different result?	17	many analyses we've got, but it's many hundreds.
18		18	And there isn't a single data set we've got that that puts nickel, cobalt, or chromium in
18 19	MS. O'DELL:	19	spec. Not a single one.
20	Object to the form.  A The the data that we've got for the	20	MR. FROST:
21	annual composite samples, I think we've got	21	Q Okay. And by "in spec," what are you
22	annual composites for 19 years. And every one of	22	referring to?
23	them's out of spec.	23	A Ten parts per million.
24	So if you if and, so, if you come	24	Q And where are you getting the spec
	Page 219		Page 221
1	up with eight more years worth of annual	1	from?
2	composites, I'm gonna bet you that they're gonna	2	A It's my value.
3	be out of spec, too. Because these 19 we've got	3	Q I mean, what is the spec?
4	are are staggered in time.	4	A That's what was given in testimony
5	MR. FROST:	5	in depositions, and it's in lots of documents
6	Q Okay. But, again, you're looking at 19	6	where the heavy metals are being reported as
7	over, I think, a 115-year history of	7	10 ppm lead max, and that was an old-time way of
8	A No. These are the annual	8	reporting a group of metals you reported as lead
9	Well, no.	9	because there was a point in time when everybody
10	Q of the product.	10	was terrified of lead. They were so worried
11	A That is not correct. No.	11	about lead because of their their children.
12	The we didn't start getting any	12	You know, it impacts the mental ability of
13	analytical data for heavy metals before, say,	13	children.
14	1970. And I don't think anybody cared, really,	14	Q Okay. Can you you have no opinion
15	prior to that.	15	as to what level of cobalt is required to cause
16	Q Okay. So, again, you're making	16	human disease, do you?
1 🗆	generalizations	17	A I think cobalt is is a Group 2
17		18	element
18	A No generalization.		Q Listen to my question, though, sir.
18 19	Q based on	19	Do you have an animina as to the total
18 19 20	Q based on A I'm telling you fact.	20	Do you have an opinion as to what level
18 19 20 21	<ul><li>Q based on</li><li>A I'm telling you fact.</li><li>Q Again, you have to go back to my</li></ul>	20 21	
18 19 20 21 22	<ul> <li>Q based on</li> <li>A I'm telling you fact.</li> <li>Q Again, you have to go back to my original question that was you can sit here and</li> </ul>	20 21 22	 MS. O'DELL:
18 19 20 21	<ul><li>Q based on</li><li>A I'm telling you fact.</li><li>Q Again, you have to go back to my</li></ul>	20 21	

56 (Pages 218 to 221)

_	Page 222		Page 224
1	You may answer.	1	MS. O'DELL:
2	A Yeah. I was gonna I was gonna say	2	He's
3	that if you're thinking of cancer, there may be	3	MR. FROST:
4	one level, but if you go if you go and try to	4	We're on my time.
5	pull the acceptable levels from from various	5	MS. O'DELL:
6	governmental agencies, you find some really	6	No. He's not
7	strange things because it depends on the medium	7	MR. FROST:
8	that you're working with.	8	No. My question is whether or not he
9	Like if you were running a landfill,	9	believes he's an expert
10	then the	10	MS. O'DELL:
11	MR. FROST:	11	You cannot interrupt him.
12	Q I'll stop you here because I'm just	12	MR. FROST:
13	very confused by this. You're not a	13	Leigh, my question is whether or not
14	toxicologist; right?	14	MS. O'DELL:
15	A Right.	15	He's trying to answer the question.
16	Q And you're not here to offer any	16	MR. FROST:
17	opinions as to whether or not	17	he believes he's an expert.
18	A I'm trying to answer your question.	18	It's a "yes" or "no" question.
19	Q Well, no. That's why I was trying	19	A I've answered that over and over. I
20	to get at that, and that's	20	said no.
21	<del>-</del>	21	MR. FROST:
22	You know, my question really is you're not here to offer any opinions that say a	22	
23			Q That's what I'm saying.
23 24	particular level of cobalt or a particular level	23	A Yes, I have. And I said "no."
∠4 	of nickel found in a product can cause human	24	Q I know. And that's what I'm getting
	Page 223		Page 225
1	disease; right?	1	at. But now you seem to be offering opinions
2	MS. O'DELL:	2	about levels of heavy metals that could be in
3	Object to the form. And I would just	3	talcum powder that can cause disease.
4	ask if you'd let the witness finish before you	4	Are you here to offer an opinion about
5	interrupt him, please.	5	that today?
6	If your answer	6	MS. O'DELL:
7	A Nickel and chromium and arsenic, I	7	Excuse me.
8	think that there's plenty of evidence that the	8	He's trying to answer your question
9	limits are way lower than what	9	regarding the specification, so let him answer.
10	Well, maybe not arsenic. But but I	10	THE WITNESS:
11	think with respect to cancer, nickel and chromium	11	Yeah.
12	are pretty well established.	12	MR. FROST:
13	But but the point is that	13	But, again, that's the question as
14	Johnson & Johnson established its own limits.	14	you're framing it. It's not the actual question
15	MR. FROST:	15	I asked.
16	Q Sir, can you please listen	16	MS. O'DELL:
17	MS. O'DELL:	17	I think he
18	MS. ODELL. Let's	18	A Well, I'm gonna answer it. I don't
19	MR. FROST:	19	care whether you like it or not.
20		20	Johnson & Johnson set its specs. The
	No, no.		•
21	MS. O'DELL:	21	specs have to be there for a reason. And the
22	Excuse me.	22	specs are quite low, and the talcum powder
22	MD EDOCT.	2.2	moduat it avagada thama I mas itli 1
22 23 24	MR. FROST: He's not answering my question.	23 24	product, it exceeds them. I mean, it's as simple as that. I'm not saying it's causing

57 (Pages 222 to 225)

	Page 226		Page 228
1	I mean, it could be causing gum	1	MS. O'DELL:
2	disease. I don't know. But it's their specs I'm	2	Object to the form.
3	referring to.	3	A Absolutely.
4	MR. FROST:	4	MR. FROST:
5	Q Okay. And that's my question.	5	Q Okay. All right. Turning to the
6	A Their own specifications.	6	"Mineralogy" section of your report that starts
7	Q And you can't tell me if out of spec	7	on page 9.
8	has any you know, whether or not any	8	A Okay.
9	particular level, in spec or out of spec, has any	9	Q Can you point me to a specific
10	potential concern for causation of human disease;	10	geological report that you rely on that talks
11	correct?	11	about the geological deposit of the Jhizhua talc
12	A I am gonna leave that to the experts	12	mine, in the Guangxi province of China?
13	who I'm sure will have lots to say about that.	13	A Yeah. There
14	Q And that's what I was trying to get at,	14	MS. O'DELL:
15	sir.	15	On page 9?
16	A Okay.	16	MR. FROST:
17	Q That's not your area of expertise.	17	It starts on the the section starts
18	A Well, I've answered that question over	18	on page 9. I'm talking about Section B,
19	and over again. I'm not an expert in toxicology.	19	"Mineralogy," in general.
20	Q Okay. Then next time, don't explain	20	MS. O'DELL:
21	something that you're not into.	21	Okay. And you're directing him to the
22	A Well, you asked the question, and I	22	section on China beginning on page 12?
23	tried to give you the knowledge that I had. But	23	MR. FROST:
24	the basis for my statement is the fact that there	24	Yeah. I'm not directing him to any
	D 000		
	Page 227		Page 229
1	are set specifications that were made by	1	specific. It was a general question, and that
1 2	are set specifications that were made by Johnson & Johnson, and the analyses exceed that.	1 2	
	are set specifications that were made by Johnson & Johnson, and the analyses exceed that. I mean, it's just as simple as that.		specific. It was a general question, and that
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	Page 230		Page 232
1	was by Gregg. Then there's a whole series of	1	misidentification of platy tale lying on plane as
2	documentation on on Argonaut, many reports on	2	potentially fibrous?
3	Argonaut that	3	MS. O'DELL:
4	MR. FROST:	4	Object to the form.
5	Q Okay. You mentioned the Johnson mine.	5	A I think that that's something that is
6	Again, we established before, but for that one	6	fairly common. You turn a plate on edge, it
7	reference that talks about	7	looks like fiber.
8	I forget the ore numbers. I believe	8	MR. FROST:
9	they're 500 507.	9	Q Yeah. And that's because most of the
10	You have nothing else you certainly	10	microscopes are 2D as opposed to 3D image?
11	have nothing to show that Grade 66 talc ever came	11	A Correct.
12	from the Johnson mine; correct?	12	MS. O'DELL:
13	MS. O'DELL:	13	Object to the form.
14	Object to the form.	14	A I can you can you ask or make
15	A I'm not sure about Grade 66. I don't	15	that statement again about the 2D versus 3D?
16	know what they called it when Johnson mine was	16	MR. FROST:
17	operating.	17	Q And that's because when you're looking
18	I think that I have one other document	18	at a 2D image, it's hard to tell if you're
19	that that would indicate that for a short	19	looking at something on plane or on edge?
20	period of time cosmetic talc was produced at	20	A That's kind of an that's an
21	Johnson.	21	interesting comment, because when you're using a
22	MR. FROST:	22	polarized light microscope, if you're just using
23	Q But you agree with me the only document	23	a ground-up talc sample, the way you do that, you
24	we've been able to come up with thus far, I	24	put a little pinch of the talc on a glass slide
	Page 231		Page 233
1	Page 231 believe, was Grade 500 and 549, according to my	1	Page 233 and then you put a drop of refractive index oil
1 2		1 2	
	believe, was Grade 500 and 549, according to my		and then you put a drop of refractive index oil
2	believe, was Grade 500 and 549, according to my notes	2	and then you put a drop of refractive index oil on it. That does tend to make the plates lay
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	Page 234		Page 236
1		1	Q Okay. Do you have the marked document
2	Q It reads, "Deposits derived from sedimentary carbonate rock, such as the Italian	2	in front of you?
3	deposits, typically contain accessory minerals	3	Okay. If you look at the report, the
4	that may include asbestos (actinolite and	4	first document you cite to is JNJ_00030983. And
5	tremolite in asbestiform habits) and the chlorite	5	do you agree that's the document I've put in
6	family minerals."	6	front of you?
7	Right?	7	A I don't know. It doesn't look like it.
8	A Correct.	8	Oh, wait a minute.
9	Q And then, you know, you continue on to	9	
10	talk about Pooley, and you cite, you know, the		Q Look at the very the very bottom
11	various documents. I can read the whole thing if	10	right.
12	you want. But at the end of that you say various	11	A Yeah. There's three different sets of
13	different documents, right, that support that	12	numbers on this thing. I'm not even sure this is
14	position?	13	the right document.
15	A Yeah.	14	MS. O'DELL:
16	Q Okay.	15	That
17	I'll mark what number are we at?	16	MR. FROST:
18	THE COURT REPORTER:	17	Q Well, that's what I was gonna say is
19	15.	18	that I can tell you this is the document that was
20	MR. FROST:	19	produced as JNJ_00030983. And you agree with me
21		20	this is appears to be an epidemiological
22	I should be able to get through this	21	study, not a not a mining study; correct?
23	pretty quickly, Leigh, and then we then we can we can break.	22	A Yeah. And this is this is my fear
23 24	MS. O'DELL:	23	all the way through here, you know. When I've
24	MS. ODELL.	24	gotten multiple Bates numbers on things, I have
	Page 235		Page 237
1	Page 235 Yeah. If we could break at 2:50	1	Page 237 to pick one. And this I don't think this is a
1 2		1 2	
	Yeah. If we could break at 2:50		to pick one. And this I don't think this is a
2	Yeah. If we could break at 2:50 MR. FROST:	2	to pick one. And this I don't think this is a document that I've looked at.
2	Yeah. If we could break at 2:50 MR. FROST: Yeah.	2 3	to pick one. And this I don't think this is a document that I've looked at.  Q Okay.
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60 (Pages 234 to 237)

	Page 238		Page 240
1	Q I think you're gonna recognize this	1	quality, purity, uniformity and reliability of
2	document. So this is the second document in the	2	supply, outstanding performance for many years
3	series.	3	when compounded into Johnson's baby powder."
4	A I am gonna recognize it?	4	A Right.
5	Q JNJ000016791.	5	Q Okay. All right. This last one I'll
6	A Yeah.	6	mark, and then we can break.
7	Q Again, this is a	7	So this is the Pooley report, which is
8	A Something's screwed up.	8	JNJ322351.
9	Q Seems to be a better copy of the same	9	A Is this the long one or there's
10	document.	10	there's multiply Pooley reports.
11	A Yeah.	11	Q Yeah, I believe this is the long one.
12	Q Okay. All right. Move on to the next	12	A Okay.
13	one which is cited, which is the JNJ60592.	13	•
14	(DEPOSITION EXHIBIT NUMBER 17	14	Q It's the one that deals with the Italian mines.
15	WAS MARKED FOR IDENTIFICATION.)		
16	A Okay.	15	A Yeah. Well, there are a number of
17	MR. FROST:	16	them.
18	Q Okay. You'll agree with me that this	17	Q Yeah. There's one that's extremely
19	document talks about the presence of quartz.	18	short
20	Nowhere does it talk about the presence of	19	A Yeah.
21	fibrous amphiboles.	20	Q and then there's the longer one.
22	A Correct.	21	This is the longer of the two.
23	Q Okay. Move on to the next one, tab	22	(DEPOSITION EXHIBIT NUMBER 19
24	which is JNJ238194.	23	WAS MARKED FOR IDENTIFICATION.)
21	willen 18 31 32 3017 +.	24	MR. FROST:
	Page 239		Page 241
1		1	Page 241  Q And I'll first address your attention
1 2	Page 239  Sorry. What number are we on?  THE COURT REPORTER:	1 2	
	Sorry. What number are we on?		Q And I'll first address your attention to page 6 of the report.
2	Sorry. What number are we on? THE COURT REPORTER:	2	<ul><li>Q And I'll first address your attention to page 6 of the report.</li><li>A Okay.</li></ul>
2	Sorry. What number are we on? THE COURT REPORTER: 18.	2 3 4	<ul> <li>Q And I'll first address your attention</li> <li>to page 6 of the report.</li> <li>A Okay.</li> <li>Q The bottom paragraph, he sort of</li> </ul>
2 3 4	Sorry. What number are we on? THE COURT REPORTER: 18. MR. FROST: 18.	2 3	<ul> <li>Q And I'll first address your attention to page 6 of the report.</li> <li>A Okay.</li> <li>Q The bottom paragraph, he sort of it's the summary of what he's doing.</li> </ul>
2 3 4 5	Sorry. What number are we on? THE COURT REPORTER: 18. MR. FROST: 18. (DEPOSITION EXHIBIT NUMBER 18	2 3 4 5 6	<ul> <li>Q And I'll first address your attention to page 6 of the report.</li> <li>A Okay.</li> <li>Q The bottom paragraph, he sort of it's the summary of what he's doing.</li> <li>A Hang on. I may have the wrong page.</li> </ul>
2 3 4 5 6	Sorry. What number are we on? THE COURT REPORTER: 18. MR. FROST: 18. (DEPOSITION EXHIBIT NUMBER 18 WAS MARKED FOR IDENTIFICATION.)	2 3 4 5 6 7	Q And I'll first address your attention to page 6 of the report.  A Okay.  Q The bottom paragraph, he sort of it's the summary of what he's doing.  A Hang on. I may have the wrong page.  All right. I've got it.
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61 (Pages 238 to 241)

	Page 242		Page 244
1	Q One, two, three, four, five	1	MR. FROST:
2	MS. O'DELL:	2	Yeah, the entire exhibit.
3	The page 6 I have, it's it's got a	3	Q Look at the bottom paragraph. On
4	picture on it. So it's not what you're	4	Sorry. On the page on the left.
5	MR. FROST:	5	Okay. The second sentence down says,
6	So it's the ninth page in.	6	"The only asbestos-type mineral to be detected in
7	MS. O'DELL:	7	the Hamm samples was tremolite, which was found
8	And I'm sorry. It's right before our	8	in three of the specimens. The tremolite was
9	call with the Court.	9	associated"
10	MR. FROST:	10	Under our conclusion.
11	Yeah, that's fine. We can pause here.	11	"with carbonate minerals, mainly
12	VIDEOGRAPHER:	12	magnesite and calcite. No tremolite was detected
13	Going off the record. The time is	13	in the talc-typed specimens."
14	12:53 p.m.	14	A Okay.
15	(OFF THE RECORD.)	15	Q And, then, if you go to the
16	VIDEOGRAPHER:	16	second-to-last paragraph of the paper
17	We're back on the record. The time is	17	A Okay.
18	1:48 p.m.	18	Q towards the bottom of that paragraph
19	MR. FROST:	19	it reads, "Particles formed of the amphibole
20	Q Okay. Welcome back from lunch, sir.	20	mineral found at the mine were hardly fibrous in
21	So we were on page 6 of the Pooley	21	character, the majority of the tremolite breaking
22	report.	22	in breaking to give compact particles."
23	A Okay. Right.	23	A Uh-huh.
24	Q I believe you're on the correct page.	24	Q I read it poorly, but did I read it
	Page 243		Page 245
1	A Uh-huh.	1	right?
2	Q Okay. The bottom paragraph?	2	MS. O'DELL:
3	A Right.	3	Object to the form.
4		1	3
-	Q Okay. It's talking about the report,	4	A Right. I've read it.
5	and it says, "Numerous photomicrographs taken	4 5	•
			A Right. I've read it.
5	and it says, "Numerous photomicrographs taken under PPL and XN are provided with the description to mainly illustrate the rock	5	A Right. I've read it. MR. FROST:
5 6	and it says, "Numerous photomicrographs taken under PPL and XN are provided with the description to mainly illustrate the rock textures, which it is hoped will provide	5 6 7 8	A Right. I've read it.  MR. FROST:  Q Okay. So do you agree with me that the Pooley report does not mention finding any fibrous materials at the the Italian mine?
5 6 7 8 9	and it says, "Numerous photomicrographs taken under PPL and XN are provided with the description to mainly illustrate the rock textures, which it is hoped will provide information useful in the"	5 6 7 8 9	A Right. I've read it.  MR. FROST:  Q Okay. So do you agree with me that the Pooley report does not mention finding any fibrous materials at the the Italian mine?  MS. O'DELL:
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5 6 7 8 9 10 11 12 13 14 15 16 17 18	and it says, "Numerous photomicrographs taken under PPL and XN are provided with the description to mainly illustrate the rock textures, which it is hoped will provide information useful in the"  That's a tough one.  "continuation"  A Right. Q "of particular of particularly the talc ore samples and also displays the nonoccurrence of asbestiform amphiboles in the talc ore."  Did I read that correctly? A Yes. Q And if you turn to the last two	5 6 7 8 9 10 11 12 13 14 15 16 17 18	A Right. I've read it.  MR. FROST:  Q Okay. So do you agree with me that the Pooley report does not mention finding any fibrous materials at the the Italian mine?  MS. O'DELL:  Object to the form.  A Yeah.  This isn't the only Pooley report.  MR. FROST:  Q This is the one that's cited in your report on  A Right. There's more  Q page 10; correct?  A There's more than one. But I think that in the material that you read, he doesn't
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	and it says, "Numerous photomicrographs taken under PPL and XN are provided with the description to mainly illustrate the rock textures, which it is hoped will provide information useful in the"  That's a tough one.  "continuation"  A Right.  Q "of particular of particularly the talc ore samples and also displays the nonoccurrence of asbestiform amphiboles in the talc ore."  Did I read that correctly?  A Yes.  Q And if you turn to the last two pages  A The last two?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Right. I've read it.  MR. FROST:  Q Okay. So do you agree with me that the Pooley report does not mention finding any fibrous materials at the the Italian mine?  MS. O'DELL:  Object to the form.  A Yeah.  This isn't the only Pooley report.  MR. FROST:  Q This is the one that's cited in your report on  A Right. There's more  Q page 10; correct?  A There's more than one. But I think that in the material that you read, he doesn't does not mention fibrous tremolite.  Q You'd agree this is the document that

62 (Pages 242 to 245)

1 Q Okay.  Great. Sorry. I've got to reorient 3 myself where I am in your report. If you'll give 4 me a second. 5 A if sall right. 6 VIDEOGRAPHIER: 7 Jack, do you have your mic on? 8 MR. FROST: 9 I do not. 10 Q Page 10, we've under "Italy." So about had halfway through your paragraph, you have a sentence that reads, "Chrysoile is also reported in the Wall Chisone mineral suite in 1971 by 14 Ashton." 15 A Right. 6 Q And you cie JNJAZ55-6103. 16 Q And you cie JNJAZ55-6103. 17 Pee got that document. 18 A And he's got a list of minerals kind of in the middle of in the middle of the page there, and chrysoile, I think, is mentioned. 21 Right. 22 (JEPOSTITON EXHIBITI NUMBER 20 WAS MARKED FOR IDENTIFICATION.) 24 MR. FROST: 25 Q Yeah, it's you're talking about where the the arrow is on the paper? 26 A Correct. 4 Q And you'd also agree with me that he's he's talking about the Pontane or or mine specifically; correct? 3 A Correct. 4 Q And you'd also agree with me that be's he's talking about the Pontane or or mine specifically; correct? 3 A Correct. 4 Q And you'd also agree with me that be's he's talking about the Fontane or or mine specifically; correct? 4 Q And you'd also agree with me that be's he's talking about the Fontane or or mine specifically; correct? 4 Q And you'd also agree with me that be's he's talking about the Fontane or or mine specifically; correct? 5 A He might have been. 6 Q But there's no way to tell by this document; correct? 7 Q Okay. And he's talking about, "I have checked into the mineralization of the paper of the location. 7 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the location. 8 MR. FROST: 9 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the location. 9 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the location. 16 MR. FROST: 17 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the location. Okey to the form.		Page 246		Page 248
2 Great, Sorry. I've got to reorient myself where I am in your report. If you'll give me a second.  A It's all right.  VIDEOGRAPHER: Jack, do you have your mic on?  MR. FROST: Job not, all the valley are. Mell show in the valley is where the mine is. MR. FROST:  Diject to the form.  A Well, the valley are. Mell show in the valley are. MR. FROST:  Diject to the form.  A Well, the valley are. Mell show in the valley are. MR. FROST:  Diject to the form.  A Well, the valley are. Mell show in the valley are. MR. FROST:  Diject to the form.  A Well, the valley are. MR. FROST:  Diject to the form.  Diject to the form.  A Well, the valley are. MR. FROST:  MR	1	_	1	-
myself where I am in your report. If you'll give me a second.  A It's all right.  VIDEOGRAPHER: Back, do you have your mic on? BMR. FROST: I do not. Q Page 10, we're under "Italy." So about halfway through your paragraph, you have a sentence that reads, "Chrysotile is also reported in the Val Chisone mineral suite in 1971 by Ashton."  A Right. Q And you cite INIAZ55-6103. Fe ye got that document. A And he's got a list of minerals kind of in the middle of — in the middle of the page there, and chrysotile, I think, is mentioned. Right. C (DEPOSITION EXHIBIT NUMBER 20 whas MARKED FOR IDENTIFICATION.) ARS TROST:  Page 247  Q Yeah, it's — you're talking about where the — the arrow is on the paper? A Correct. Q And you'd also agree with me that he's — he's talking about the valley, what — mineralizations in the valley, that — decument; correct?  A Correct. Q And you'd also agree with me that he's — he's talking about the walley, what — mineralizations in the valley, that — the immeralizations in the valley, that — the location.  MR. FROST:  Page 247  A Correct. Q And you'd also agree with me that he's — he's talking about the walley, what — mineralizations in the valley, that — mineralizations in the valley, that — mineralizations in the valley this document; correct?  MR. FROST:  MR. FROST:  Page 247  A Correct. Q And you'd also agree with me that he's — he's talking about the walley, what — mineralizations in the valley that aren't the Fontane mass; correct?  MR. FROST: Q Soyu're telling me, by reading this, you couldn't relate to the fact that he's found all of these and they're associated with the document; correct?  MR. FROST: Q Okay. And he's talking about, "I have checked into the mineralization of the part of the territory", correct?  MR. FROST:  MR. FROST:  MS. O'DELL: Object to the form.  A He mineralization of the part of the territory correct?  MR. FROST:  MS. O'DELL: Object to the form.  A He mineralization of the part of the territory correct?  MR. FROST:  A Correct.  Q Okay. And he's talking about the			1	
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6 VIDEOGRAPIER: 7 Jack, do you have your mic on? 8 MR. FROST: 9 Ido not. 10 Q Page 10, we're under "Italy." So about halfway through your paragraph, you have a sentence that reads, "Chrysofile is also reported in the Val Chisone mineral suite in 1971 by 14 Ashton." 15 A Right. 16 Q And you cite JNIAZ55-6103. 17 Ive got that document. 18 A And he's got a list of minerals kind of 19 in the middle of - in the middle of the page there, and chrysofile, I think, is mentioned. 20 there, and chrysofile, I think, is mentioned. 21 Right. 22 (DEPOSITION EXHIBIT NUMBER 20 WAS MARKED FOR IDENTIFICATION.) 24 MR. FROST:  Page 247  1 Q Yeah, it's you're talking about where the the arrow is on the paper? 3 A Correct. 4 Q And you'd also agree with me that he's he's talking about the valley, what mineralizations in the valley. He's not talking about the Fontane ore or mine specifically; correct?  9 A He might have been. 10 Q But there's no way to tell by this document, correct? 21 MS. O'DELL: 22 MS. O'DELL: 3 Object to the form. 4 A Well, the valley is where the mine is. MR. FROST: 4 Q Yeah, it's you're talking about the notat he's he's talking about the valley, what mineralizations in the valley, what mineralizations in the valley. He's not talking about the Fontane ore or mine specifically; correct? 4 MR. FROST: 5 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the location. 5 MR. FROST: 6 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the territory", correct? 7 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the territory", correct? 9 MR. FROST: 17 Q Okay. And he's talking about, "I have checked into the mineralization of the part of the territory", correct? 18 MR. FROST: 19 A I think if you read what's been published about this, what you find is that the help of the territory", correct? 19 MR. FROST: 19 A Okay. And he's talking about, "I have checked into the mineralization of the part				•
A Well, the valley is where the mine is.				
8 MR. FROST: 9				
9 I. do not. 10 Q Page 10, we're under "Italy." So about 11 halfway through your paragraph, you have a 12 sentence that reads, "Chrysotile is also reported 12 in the Val Chisone mineral suite in 1971 by 13 in the Val Chisone mineral suite in 1971 by 14 Ashton." 15 A Right. 16 Q And you cite JNJAZ55-6103. 17 I've got that document. 18 A And he's got a list of minerals kind of 19 in the middle of — in the middle of the page 19 there, and chrysotile, I think, is mentioned. 20 there, and chrysotile, I think, is mentioned. 21 Right. 22 (DEPOSITION EXHIBIT NUMBER 20 WAS MARKED FOR IDENTIFICATION.) 24 MR. FROST: 25 Page 247 26 Q Yeah, it's — you're talking about where the — the arrow is on the paper? 3 A Correct. 3 A Correct. 4 Q And you'd also agree with me that 5 he's — he's talking about the valley, what — 6 mineralizations in the valley. He's not talking about the Fontane or or or mine specifically; correct? 3 A Hut Fontane or or or mine specifically; or orrect? 4 Q But there's no way to tell by this document; correct? 4 A Well, thin — I'm not sure that he even relates fortane in that paragraph at all. 4 MR. FROST: 4 Q Yeah, it's — you're talking about where the — the arrow is on the paper? 4 Q And you'd also agree with me that he's — he's talking about the valley, what — 6 mineralizations in the valley, what — 6 mineralizations in the valley. He's not talking about the Fontane mass; correct? 5 A That's right. But I don't know why he'd be the restrested in them. 5 A He might have been. 6 Q But there's no way to tell by this document; correct? 7 MS. O'DELL: 8 O'DELL: 9 O'Dect to the form. 10 Q O'Nay. And he's talking about, "I have checked into the mineralization of the part of the territory"; correct? 10 MS. O'DELL: 11 O'Dect to the form. 12 A I think if you read what's been published about this, what you find is that the host rocks that have nothing to do collect a bunch of rocks that have nothing to do collect a bunch of rocks that have nothing to do collect a bunch of rocks that have nothing to do collect a bun		· · · · · · · · · · · · · · · · · · ·		
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22 MR. FROST: 22 collect a bunch of rocks that have nothing to do				
23 <b>O</b> He's talking about the valley?   23 with with J&J or who he was working for.	23	Q He's talking about the valley?	23	with with J&J or who he was working for.
24 MS. O'DELL: 24 But, you know, I think that the list of				
				,

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	Page 250		Page 252
1	minerals here could be extended out to the edges	1	any talc from the Italian mines; correct?
2	of of the ore body. And if you went to the	2	A There is a document that says that they
3	Fontane mine, went underground, you could	3	were considering using it again.
4	probably find these minerals in the ore body but	4	Q Okay.
5	next to the host rocks because	5	A And it's in that time period.
6	Q Okay.	6	Q But, again, they weren't using it.
7	A Well, anyway, this is a pretty	7	They were considering using it.
8	extensive suite. And and the reason I say	8	A To my knowledge, they weren't.
9	that is tourmaline is not a mineral that you	9	Q Okay. And, to this day, you're
10	would see in a in a talc ore body, but it	10	aware I think you say in your report from '03
11	would occur next to one.	11	to today they used Chinese talc. Correct?
12	Q So I've heard in your answer a lot of	12	A That's my my understanding.
13	"I guess, I suppose." I mean, you can't sit here	13	Q Skipping down, next couple sentences,
14	and tell me that, "Yeah, this shows the	14	it says, "A paper describing asbestos in Italian
15	chrysotile is associated with the Fontane ore	15	talc deposits was published by Marconi and Verdel
16	body"; correct?	16	in 1990."
17	MS. O'DELL:	17	A Okay.
18	Object to the form.	18	Q Do you recall that?
19	A Well, it has to be associated with	19	A Yeah, I recall the reference, sure.
20	whatever processes took place that would form	20	Q Do you recall whether or not they say
21	chrysotile. And it wouldn't be in the enclosing	21	that there's any asbestos found in the Fontane
22	schists. I mean, that that's just not the	22	mine deposit?
23	right locale.	23	
24	MR. FROST:	24	A I'm not sure they say that specifically.
		- 1	specifically.
	Page 251		Page 253
1	Q So, again, my my question is just	1	Page 253  Q Okay. I'll mark it. I'll show it to
2	Q So, again, my my question is just because it says "chrysotile" in this document	2	Q Okay. I'll mark it. I'll show it to you.
	Q So, again, my my question is just because it says "chrysotile" in this document doesn't mean there's chrysotile in the ore at	2 3	Q Okay. I'll mark it. I'll show it to you.  (Technical difficulties)
2	Q So, again, my my question is just because it says "chrysotile" in this document doesn't mean there's chrysotile in the ore at Fontane; correct?	2 3 4	Q Okay. I'll mark it. I'll show it to you.  (Technical difficulties) THE COURT REPORTER:
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2 3 4 5 6 7 8 9 110 111 12 13 14 15 16	Q So, again, my my question is just because it says "chrysotile" in this document doesn't mean there's chrysotile in the ore at Fontane; correct?  MS. O'DELL:  Object to the form.  A Yeah. He doesn't say  MR. FROST:  Q Okay.  A He doesn't specifically say the Fontane mine.  Q Okay. And, again, I think you tourmaline, you pointed out, wouldn't even be associated with the talc.  A You wouldn't you wouldn't think so.  Q Okay. Moving on, on page 10 you note	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q Okay. I'll mark it. I'll show it to you.  (Technical difficulties)  THE COURT REPORTER: Do you want to go off the record?  MR. FROST: Yeah, I was gonna say, let's go off the record.  VIDEOGRAPHER: Going off the record. The time is 1:57 p.m. (OFF THE RECORD.)  VIDEOGRAPHER: We're back on the record. The time is 1:58 p.m.  MR. FROST:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q So, again, my my question is just because it says "chrysotile" in this document doesn't mean there's chrysotile in the ore at Fontane; correct?  MS. O'DELL: Object to the form.  A Yeah. He doesn't say MR. FROST: Q Okay. A He doesn't specifically say the Fontane mine. Q Okay. And, again, I think you tourmaline, you pointed out, wouldn't even be associated with the talc. A You wouldn't you wouldn't think so. Q Okay. Moving on, on page 10 you note that "Fibrous tremolite" Do you see where I am? It's another sentence down.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q Okay. I'll mark it. I'll show it to you.  (Technical difficulties)  THE COURT REPORTER: Do you want to go off the record?  MR. FROST: Yeah, I was gonna say, let's go off the record.  VIDEOGRAPHER: Going off the record. The time is  1:57 p.m. (OFF THE RECORD.)  VIDEOGRAPHER: We're back on the record. The time is  1:58 p.m.  MR. FROST: Q Okay. We are marking the Marconi and Verdel Exhibit 21. (DEPOSITION EXHIBIT NUMBER 21
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q So, again, my my question is just because it says "chrysotile" in this document doesn't mean there's chrysotile in the ore at Fontane; correct?  MS. O'DELL:  Object to the form.  A Yeah. He doesn't say  MR. FROST:  Q Okay.  A He doesn't specifically say the Fontane mine.  Q Okay. And, again, I think you tourmaline, you pointed out, wouldn't even be associated with the talc.  A You wouldn't you wouldn't think so.  Q Okay. Moving on, on page 10 you note that "Fibrous tremolite"  Do you see where I am? It's another	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q Okay. I'll mark it. I'll show it to you.  (Technical difficulties)  THE COURT REPORTER: Do you want to go off the record?  MR. FROST: Yeah, I was gonna say, let's go off the record.  VIDEOGRAPHER: Going off the record. The time is  1:57 p.m. (OFF THE RECORD.)  VIDEOGRAPHER: We're back on the record. The time is  1:58 p.m.  MR. FROST: Q Okay. We are marking the Marconi and Verdel Exhibit 21.
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64 (Pages 250 to 253)

	Page 254		Page 256
1	Q At the very bottom of 109 of 109,	1	MS. O'DELL:
2	the section called "Results and Discussion."	2	Object.
3	A Right.	3	MR. FROST:
4	Q And it says, "Sample still in	4	Q And, again, I can
5	production does not show the presence of	5	A Wow.
6	serpentine or tremolite amphibole minerals."	6	Q I can mark it if you want.
7	Did I read that correctly?	7	A That's a long thesis.
8	A Yes.	8	Q It's a very long paper.
9	Q If you turn over to 110, if you look at	9	A I'm not saying that somewhere in there
10	Table 1, which is the mean mineralogy composition	10	he doesn't say Hammondsville, but he doesn't
11	of talcs from active Italian mines, the first one	11	he doesn't present any significant information
12	is the Fontane mine in Piedmont; right?	12	about Hammondsville.
13	A Right.	13	Q Okay. Well, it's a happy medium. I
14	Q Okay. On page 11 of your report, in	14	can tell you that the word "Hammondsville" is not
15	that first paragraph we're now we've moved on	15	there
16	to the Vermont deposits.	16	A Okay.
17	A Okay.	17	<ul> <li>Q but you agree with me he's certainly</li> </ul>
18	Q And, at the end of that that first	18	not talking specifically about the Hammondsville
19	paragraph, there's a sentence that says, "These	19	geology?
20	include the Carlton talc mine in Chester, Windsor	20	A No.
21	County, and other Vermont serpentinite-related	21	MS. O'DELL:
22	actinolite or tremolite occurrences as documented	22	Object to the form.
23	by Seymour" you have (J&J 53200) "at	23	A Yeah. He he's not talking about
24	Hammondsville, the Barton steatite quarry, Holden	24	geology at the Hammondsville mine. The geology
	Page 255		Page 257
		1	5
1	talc quarry, Rochester verde antique quarry, and	1	may be quite similar.
1 2	talc quarry, Rochester verde antique quarry, and Mad River mine."	1 2	
			may be quite similar.
2	Mad River mine."	2	may be quite similar. MR. FROST:
2	Mad River mine." I've read it, again, poorly, but did I	2 3	may be quite similar.  MR. FROST:  Q Okay.
2 3 4	Mad River mine."  I've read it, again, poorly, but did I read it correctly?  A Right. Well, and, in all fairness, this is a paragraph that I began to take material	2 3 4	may be quite similar.  MR. FROST: Q Okay. A But he's not
2 3 4 5	Mad River mine."  I've read it, again, poorly, but did I read it correctly?  A Right. Well, and, in all fairness,	2 3 4 5	may be quite similar.  MR. FROST: Q Okay. A But he's not Q He's not focusing on the geology of Hammondsville. A Right.
2 3 4 5 6 7 8	Mad River mine."  I've read it, again, poorly, but did I read it correctly?  A Right. Well, and, in all fairness, this is a paragraph that I began to take material out of to add to tables.  Q Okay.	2 3 4 5 6 7 8	may be quite similar.  MR. FROST: Q Okay. A But he's not Q He's not focusing on the geology of Hammondsville. A Right. Q Do you know whether or not commercial
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65 (Pages 254 to 257)

	Page 258		Page 260
1	interesting to to actually do an asbestos	1	Yep.
2	study for the same areas that we've done a talc	2	(DEPOSITION EXHIBIT NUMBER 22
3	study for. And I actually have not done that.	3	WAS MARKED FOR IDENTIFICATION.)
4	In fact, I was surprised when I found	4	MR. FROST:
5	that talc had been mined on Belvidere Mountain.	5	Q I don't believe this report is on your
6	I was surprised.	6	literature list. Is that correct?
7	So, you know, it's not impossible that	7	A I certainly have it. I'm not sure
8	at some point in time there was asbestos mined	8	whether I used it or not. I don't believe I did,
9	somewhere near Hammondsville in the same rock	9	but but I could have.
10	unit.	10	If I had used it, I would have probably
11	Q You don't know one way or the other	11	been referencing maybe some of the other similar
12	A No.	12	deposits elsewhere than or elsewhere than
13	Q sitting here today?	13	Vermont.
14	All right. Still on page 11 of your	14	Q Okay. Quickly, if you turn to page 49
15	report, you note it's the paragraph that	15	of this document.
16	starts "A literature review for Vermont talc."	16	A Okay.
17	A Okay.	17	MS. O'DELL:
18	MS. O'DELL:	18	And if you need a minute to take a look
19	Still on page 11?	19	at it, Dr. Cook, feel free to do that.
20	MR. FROST:	20	MR. FROST:
21	Yes, still on page 11.	21	Q Although I promise you the question is
22	Q Sorry.	22	really easy.
23	A It's all right.	23	MS. O'DELL:
24	Q Trying to orient myself. I apologize.	24	Well, but
1	Page 259 I can't find where it is in your	1	Page 261 MR. FROST:
	realit fille where it is in your		
2	report bear with me but one of the	2	
2 3	report bear with me but one of the	2	Q No. No, but I agree. If you need time
3	publications you rely on in your report is the	3	Q No. No, but I agree. If you need time to read it, please take your time.
3 4	publications you rely on in your report is the Chidester 1951 USGS survey. Does that ring a	3 4	<ul><li>Q No. No, but I agree. If you need time to read it, please take your time.</li><li>A Yeah. Go ahead.</li></ul>
3 4 5	publications you rely on in your report is the Chidester 1951 USGS survey. Does that ring a bell? I'm sure I'm saying it wrong.	3 4 5	<ul> <li>Q No. No, but I agree. If you need time to read it, please take your time.</li> <li>A Yeah. Go ahead.</li> <li>Q So if you look at the Table 22, if you</li> </ul>
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66 (Pages 258 to 261)

	Page 262		Page 264
1	MS. O'DELL:	1	A This is it's kind of interesting
2	I don't think he's mentioned NIOSH,	2	that they would write this paper.
3	but	3	MR. FROST:
4	MR. FROST:	4	Q Why is that?
5	Q I thought you had. But do you know who	5	A Well, the title, it it suggests that
6	NIOSH is?	6	they're willing to accept the fact that
7	A Right.	7	asbestiform talc exists.
8	Q And are you aware that NIOSH did an	8	Q Okay. But if you turn to page 377,
9	epidemiological study of talc miners working at	9	under "Conclusions"
10	the various Vermont talc plants?	10	A Uh-huh.
11	A I know it exists. I don't know the	11	Q Do you see where I am?
12	results.	12	A Yep.
13	Q Okay. And are you aware the reason	13	Hang on a sec. I can't make the pages
14	that NIOSH specifically chose the Vermont talc	14	turn for me. Hang on a sec.
15	mines for purposes of the study?	15	MS. O'DELL:
16	A No.	16	Yeah. Take a minute if you since
17	Q Were you ever aware that NIOSH chose	17	you haven't seen it, Doctor, if you need to look
18	them because they believed those talc mines to be	18	at it, feel free to take a look at it.
19	asbestos-free?	19	A Have you noticed that half the
20	MS. O'DELL:	20	documents we've got don't have dates on them?
21	Objection to form.	21	MR. FROST:
22	MR. FROST:	22	
23		23	Q I have, actually. A Have you noticed that? It's the most
24	Q And if you haven't, okay. A No, I didn't know that.	24	irritating thing.
24	A No, I didn't know that.	24	irritating tiling.
	Page 263		Page 265
1	MR. FROST:	1	Q I have noticed that.
2	I'm gonna mark another exhibit.	2	A See, this is a 1979 document.
3			
	MS. O'DELL:	3	O That's correct.
4	MS. ODELL: 23?	3 4	
	23?		A And yet their the title is
4	23? MR. FROST:	4	A And yet their the title is forward-looking.
4 5 6	23? MR. FROST: No. That's 22. No, 23. You're right.	4 5 6	A And yet their the title is forward-looking.  Q So, again, once you're done looking at
4 5 6 7	23? MR. FROST: No. That's 22. No, 23. You're right. (DEPOSITION EXHIBIT NUMBER 23	4 5 6 7	A And yet their the title is forward-looking. Q So, again, once you're done looking at it, I'm on page 377.
4 5 6 7 8	23? MR. FROST: No. That's 22. No, 23. You're right. (DEPOSITION EXHIBIT NUMBER 23 WAS MARKED FOR IDENTIFICATION.)	4 5 6 7 8	A And yet their the title is forward-looking. Q So, again, once you're done looking at it, I'm on page 377. A Yeah, I'm there. I'm
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4 5 6 7 8 9	23? MR. FROST: No. That's 22. No, 23. You're right. (DEPOSITION EXHIBIT NUMBER 23 WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q So on the fourth piece of paper, which	4 5 6 7 8 9	A And yet their the title is forward-looking.  Q So, again, once you're done looking at it, I'm on page 377.  A Yeah, I'm there. I'm Q Okay. You see under the first sentence it says, "The Vermont talc industry was selected
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67 (Pages 262 to 265)

	Page 266		Page 268
1	Q That's what it states?	1	mentioned in those mines in the mineral index of
2	A That's what it states. But in the	2	Vermont, which, you know, it isn't complete, but
3	first thing that you read, it says minimum	3	I think that it's a useful thing to cite.
4	minimal amounts.	4	So, no, I can't think of any in the
5	Q Of, quotes, in asbestos.	5	published literature. They may exist. I'm just
6	A Right. I would question, you know,	6	drawing a blank right now.
7	whether some of those analytical techniques are	7	Q Okay. All right. So turn to page 11,
8	sufficient to say there's no asbestos.	8	sir, of your report.
9	Q So you believe that TEM is	9	A Okay.
10	insufficient?	10	Q You state, about halfway through,
11	A TEM, I think, is is okay.	11	"Amphibole in amounts less than .1 percent were
12	Q Okay.	12	found in float feed in Hamm mine ore as reported
13	A But I don't think XRD is.	13	in a product certification report in 1992."
14	Q Okay. But, again, analytical	14	And then you cite Imerys 151337.
15	transmission electron microscopy, that's TEM;	15	A Hopefully, that's the right report.
16	right?	16	MR. FROST:
17	A It is. But, now, that's gonna tell you	17	Mark this as 24.
18	the the mineralogy of a specific particle.	18	
19	Q Okay.		(DEPOSITION EXHIBIT NUMBER 24
20	A One particle. Okay?	19	WAS MARKED FOR IDENTIFICATION.)
21	Q Sure. But you agree that TEM is a	20	MR. FROST:
22	proper	21	Here you are.
23	A Well, the point is that they can't have	22	Q And, again, you'll agree with me this
24	analyzed a lot of a lot of samples because	23	is not a product certification?
	1	24	A No. This is a not something I've
	Page 267		Page 269
1	it's too time-consuming and too expensive. So	1	seen before.
2	the fact that they didn't find any asbestos with	2	Q Okay. And this certainly doesn't talk
3	TEM is, you know, that's interesting.	3	about amphibole found in float feeder in the
4	Q And, again, that's just speculating	4	mine?
5	because I'm looking at this sentence, how much	5	A No.
6	they looked at and what they looked at.	6	Q Okay. Turn to page 12. The top
7	A Right.	7	paragraph, it says, "Concern with incorporating
8	Q Okay. Okay. Can you point me to any	8	serpentine and lampr"
9	specific geology studies or reports in the	9	A Lamprophyre.
10	published literature that show there's any	10	Q "lamprophyre"
11	asbestos at the Hammondsville, Hamm, Argonaut, or	11	A Uh-huh.
12	Rainbow mines?	12	Q "from dikes in processed Vermont ore
13	A In the published literature?	13	was expressed in 2006"
14	Q Yes, in the published literature.	14	A Right.
15	A No.	15	Q "suggesting a maximum of 2 percent
16	Q Okay. Turn to page 11 of your report.	16	for serpentine."
17	A Let me I'm still thinking about my	17	Do you also agree with me that by '06
18	very rapid "no" response. We were mine-specific.	18	Johnson & Johnson was no longer using Vermont
19	I'm thinking about back about the US	19	talc? Correct?
エラ	Geological Survey's database. I don't think	20	A Right. They were using it but not for
	there that they have pointed out asbestos in	21	cosmetic talc.
20			
20 21		2.2	() Not for cosmetic falciim nowder
20 21 22	those mines. I don't think they have. They have	22	Q Not for cosmetic talcum powder.  A It was industrial
20 21		22 23 24	Q Not for cosmetic talcum powder. A It was industrial. Q Right.

68 (Pages 266 to 269)

	Page 270		Page 272
1	A You know, the reason I had that in my	1	mineral. Every mineral's got multiple peaks.
2	report was	2	And, so, if you've got a sample that's
3	MS. O'DELL:	3	got, let's say, talc, magnesite, and some
4	Go ahead.	4	chlorite, you can have a very complicated x-ray
5	THE WITNESS:	5	diffractogram and, unfortunately, there is
6	He's not listening.	6	interference with some of the characteristic
7	MR. FROST:	7	peaks, particularly for chrysotile. I mean, you
8	Q I'm listening, sir.	8	just you can't do chrysotile by XRD because
9	A Are you?	9	there are two or three things that interfere with
10	Q Okay. Yes.	10	the very peak that you need to look at.
11	A was that there's no indication that	11	And, so, it's hard it's hard to get
12	there was a dramatic change in geology at	12	to .1, I would say. But I'm willing to accept
13	Argonaut and, so, we know that the lamprophyre	13	that. But I've, in my experience, I have never
14	dikes are are pretty prevalent there. So I'm	14	been able to get there.
15	just pointing out once again that there, you	15	Q Okay. You agree the published
16	know, there are things that are there that could	16	literature says .1, give or take
17	have been in the ore from the start.	17	A Yeah.
18	Q Okay. But, again, you know, we're	18	Q is the accepted level or the the
19	using "could have." We're just sort of guessing	19	level of sensitivity of the instrument?
20	at this point.	20	A It's there. That's mentioned.
21	A Right.	21	Q And are you aware that the FDA
22	MS. O'DELL:	22	regulates talcum powder?
23	Object to the form.	23	MS. O'DELL:
24	MR. FROST:	24	Object to the form.
-			
1	Q All right. Further down on page 12	1	A I've read that.
2	it's the next paragraph you write (as read:)	2	MR. FROST:
3	"Screening talc ore samples for trace to small	3	Q Okay. And you're aware that, under the
4	amounts of specific amphibole series by X-ray	4	FDA agreed-upon testing, that XRD testing of bulk
5	diffraction is not adequate because of its was	5	talcum powder is the first step?
6	[sic] high detection limit."	6	A Yes. Yes. That's been the first step
7	Do you see that?  A Uh-huh. Yes.	7 8	for decades.
8			Q Okay. And we've already talked about
9 10	Q And what's your basis for the	9 10	this, but you don't have an opinion or you're not qualified to give an opinion as to whether or not
11	statement?  A Well, I have done I don't know how many	11	any amphibole materials that might exist in talc
$\perp \perp$			
1 2			
12	years of analytical work with x-ray diffraction,	12	below .1 percent detection level could be capable
13	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it	12 13	below .1 percent detection level could be capable of causing human disease; right?
13 14	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use	12 13 14	below .1 percent detection level could be capable of causing human disease; right? MS. O'DELL:
13 14 15	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that	12 13 14 15	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL:  Object to the form.
13 14 15 16	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that exaggerates the presence of a peak. I'm willing	12 13 14 15 16	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL: Object to the form.  A No.
13 14 15 16 17	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that exaggerates the presence of a peak. I'm willing to buy .1, but that's it. I mean, I don't think	12 13 14 15 16 17	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL:  Object to the form.  A No.  MR. FROST:
13 14 15 16 17 18	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that exaggerates the presence of a peak. I'm willing to buy .1, but that's it. I mean, I don't think you could possibly do it below that.	12 13 14 15 16 17 18	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL:  Object to the form.  A No.  MR. FROST:  Q Okay. Further down on that page, you
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13 14 15 16 17 18 19 20	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that exaggerates the presence of a peak. I'm willing to buy .1, but that's it. I mean, I don't think you could possibly do it below that.  And it depends on the peaks that you're using, because some of these	12 13 14 15 16 17 18 19 20	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL: Object to the form.  A No. MR. FROST: Q Okay. Further down on that page, you start talking about chlorite. It's over on page 12, Leigh, third
13 14 15 16 17 18 19 20 21	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that exaggerates the presence of a peak. I'm willing to buy .1, but that's it. I mean, I don't think you could possibly do it below that.  And it depends on the peaks that you're using, because some of these some of these rock units have got minerals	12 13 14 15 16 17 18 19 20 21	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL: Object to the form.  A No. MR. FROST: Q Okay. Further down on that page, you start talking about chlorite. It's over on page 12, Leigh, third paragraph down.
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13 14 15 16 17 18 19 20 21	years of analytical work with x-ray diffraction, and for my clients, I'm not willing to give it below 1 percent. But there you they do use step scanning, which is a repetitive process that exaggerates the presence of a peak. I'm willing to buy .1, but that's it. I mean, I don't think you could possibly do it below that.  And it depends on the peaks that you're using, because some of these some of these rock units have got minerals	12 13 14 15 16 17 18 19 20 21	below .1 percent detection level could be capable of causing human disease; right?  MS. O'DELL: Object to the form.  A No. MR. FROST: Q Okay. Further down on that page, you start talking about chlorite. It's over on page 12, Leigh, third paragraph down.

	Page 274		Page 276
1	the Argonaut mine."	1	A Whatever.
2	Then you have a cite and the example of	2	Q Still on page 12, but
3	"chlorite content of 4.1 percent is reported for	3	A Yep. Yep.
4	its ores in a reserve study produced in '08.	4	Q we'll move into China.
5	Okay? And just because a level of	5	A Thanks.
6	chlorite shows up in the drilling core logs	6	Q You note at the second paragraph under
7	doesn't necessarily mean that it's in the talc	7	the heading "China," quote, "There was a report
8	that's used to produce the ore; correct?	8	of asbestos in Chinese talc in late 2009 (Imerys
9	A Well, let me answer it in an	9	309326)." And then you state, "In 2016
10	interesting way. When you look at the analyses	10	chrysotile particles were found in talc mined in
11	that we had	11	China (JNJ52161)."
12	And, by the way, earlier when I said I	12	All right. So let's look at those in
13	hadn't seen a set of analyses that were in spec	13	turn. Let's start with the Imerys 309326.
14	for the metals, I was referring to Vermont.	14	(DEPOSITION EXHIBIT NUMBER 25
15	Q Okay.	15	WAS MARKED FOR IDENTIFICATION.)
16	A I mean, you know, China's usually in	16	MR. FROST:
17	spec completely for metals.	17	Q And I'll direct your attention to the
18	But if you look at the the analyses	18	last page.
19	for Grade 66 talcum, if you have 99 percent talc,	19	A Yeah. Got it.
20	which is wonderful, there's still 1 percent	20	Q Okay. And I take it you're relying on
21	something else. And that something else is	21	the sentence about halfway through. It says,
22	probably a chlorite family mineral. That's	22	"Chinese authorities have informed J&J"
23	probably the way you have got to explain that,	23	A Right.
24	that other 1 percent.	24	Q "that its internal testing contained
	Page 275		Page 277
1		1	
1 2	If it is a chlorite family mineral,	1 2	asbestos in several talc body powers marketed in
2	If it is a chlorite family mineral, then it's possible that these high metal numbers	2	asbestos in several talc body powers marketed in China, including two products from J&J."
2	If it is a chlorite family mineral, then it's possible that these high metal numbers that you have may be related to the chlorite, at	2 3	asbestos in several talc body powers marketed in China, including two products from J&J."  A Correct.
2 3 4	If it is a chlorite family mineral, then it's possible that these high metal numbers that you have may be related to the chlorite, at least in part. And that was that was the	2 3 4	asbestos in several talc body powers marketed in China, including two products from J&J."  A Correct.  Q Okay. Do you agree with me that it
2 3 4 5	If it is a chlorite family mineral, then it's possible that these high metal numbers that you have may be related to the chlorite, at least in part. And that was that was the reason for my comment.	2 3 4 5	asbestos in several talc body powers marketed in China, including two products from J&J."  A Correct.  Q Okay. Do you agree with me that it continues to read, "However, four independent Chinese laboratories using similar test method to the Chinese authorities did not find any
2 3 4 5 6 7 8	If it is a chlorite family mineral, then it's possible that these high metal numbers that you have may be related to the chlorite, at least in part. And that was that was the reason for my comment.  Q Okay.  A I'm I'm trying to explain some of the numbers.	2 3 4 5 6 7 8	asbestos in several talc body powers marketed in China, including two products from J&J."  A Correct.  Q Okay. Do you agree with me that it continues to read, "However, four independent Chinese laboratories using similar test method to the Chinese authorities did not find any asbestos. J&J approached RTM"
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	If it is a chlorite family mineral, then it's possible that these high metal numbers that you have may be related to the chlorite, at least in part. And that was that was the reason for my comment.  Q Okay.  A I'm I'm trying to explain some of the numbers.  Q I understand.  So it's more of a scientific analysis  A Right, exactly.  Q of here's how you could explain some of the higher levels because they'd be associated with chlorite?  A Right.  Q Okay.  MS. O'DELL:  This is the document I think that he was asking you about.  THE WITNESS:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	asbestos in several talc body powers marketed in China, including two products from J&J."  A Correct.  Q Okay. Do you agree with me that it continues to read, "However, four independent Chinese laboratories using similar test method to the Chinese authorities did not find any asbestos. J&J approached RTM"  Which is Rio Tinto Minerals.  A Yeah.  Q "for help in the issue. RTM provided initial support in identifying potential drawback of the test method used by the Chinese authorities. Chinese authorities invited J&J and others concerned J&J, the other concerned talc body powder companies and the four independent Chinese laboratories whose asbestos test results were negative, to discuss and resolve the test method discrepancies."  I read that right?  A Yeah. Sure.

70 (Pages 274 to 277)

	Page 278		Page 280
1	correct; right?	1	Excuse me. Just give me a second,
2	MS. O'DELL:	2	Jack.
3	Object to the form.	3	MR. FROST:
4	A Well, sure. I mean, it's a report	4	Sure.
5	of of asbestos in a particular sample. And it	5	MS. O'DELL:
6	doesn't mean you can't take more samples that are	6	Were you finished? I apologize. I was
7	asbestos-free.	7	trying to get
8	MR. FROST:	8	MR. FROST:
9	Q Okay. And, again, do you know do	9	Yeah. You can object.
10	you know if the Chinese authorities ever had the	10	MS. O'DELL:
11	conversation with the various labs that tested	11	Object to the form. Misstates the
12	whether or not they ever came to the	12	record.
13	determination that there truly was chrysotile?	13	MR. FROST:
14	A I think	14	Q Okay.
15	MS. O'DELL:	15	A Yeah. I don't remember exactly what
16	Excuse me.	16	the the resolution was, but I don't think
17	Object to the form. Misstates the	17	everybody quit quit using the Chinese talc
18	record.	18	because of the the results of that of that
19	MR. FROST:	19	test.
20	Q You can answer.	20	Q All right.
21	A I think that there is a whole series of	21	A But it doesn't to me, it doesn't
22	memoranda and reports that relate to, you know,	22	mean there was no asbestos.
23	it was the bee in the bonnet here. And I don't	23	Q Okay. I'm gonna mark JNJ52616.
24	remember the exact details of who did what to	24	(DEPOSITION EXHIBIT NUMBER 26
	Page 279		Page 281
1	whom, but I think in the end they decided that it	1	WAS MARKED FOR IDENTIFICATION.)
2			((12) 1
_	must have been a mistake.	2	A For you know, let me just give you
3	must have been a mistake.  Q Okay.	2 3	•
		1	A For you know, let me just give you
3	Q Okay.	3	A For – you know, let me just give you an example. If these people determined asbestos with XRD, it's a pretty good chance that it was certainly higher than .1. I would guess that
3 4	<ul><li>Q Okay.</li><li>A They didn't prove it was a mistake, but</li></ul>	3 4	A For you know, let me just give you an example. If these people determined asbestos with XRD, it's a pretty good chance that it was
3 4 5	<ul> <li>Q Okay.</li> <li>A They didn't prove it was a mistake, but</li> <li>I think that that was the consensus.</li> <li>Q That was the ultimate determination?</li> <li>Okay.</li> </ul>	3 4 5	A For – you know, let me just give you an example. If these people determined asbestos with XRD, it's a pretty good chance that it was certainly higher than .1. I would guess that
3 4 5 6	<ul> <li>Q Okay.</li> <li>A They didn't prove it was a mistake, but</li> <li>I think that that was the consensus.</li> <li>Q That was the ultimate determination?</li> <li>Okay.</li> <li>A You know, I'm experienced with the</li> </ul>	3 4 5 6	A For you know, let me just give you an example. If these people determined asbestos with XRD, it's a pretty good chance that it was certainly higher than .1. I would guess that their equipment wouldn't wouldn't get it down that low. So they must have they must have seen something.
3 4 5 6 7 8 9	<ul> <li>Q Okay.</li> <li>A They didn't prove it was a mistake, but</li> <li>I think that that was the consensus.</li> <li>Q That was the ultimate determination?</li> <li>Okay.</li> <li>A You know, I'm experienced with the</li> <li>Chinese, and and, in the first place, they</li> </ul>	3 4 5 6 7 8	A For you know, let me just give you an example. If these people determined asbestos with XRD, it's a pretty good chance that it was certainly higher than .1. I would guess that their equipment wouldn't wouldn't get it down that low. So they must have they must have seen something.  MR. FROST:
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71 (Pages 278 to 281)

	Page 282		Page 284
1	I take it that's the section of this	1	I mean, it isn't gonna work.
2	document you're relying on	2	MR. FROST:
3	A Yes.	3	Q Okay. You agree that's what the
4	Q to say that chrysotile was found in	4	document says; right?
5	2016?	5	A Yeah. You read it you read it the
6	A Yes.	6	way it's written, but
7	Q Okay. If you turn over to the next	7	Q All right. I'm gonna turn to some more
8	page.	8	general questions now.
9	A Can I make a comment about that?	9	Now, you're generally aware that there
10	Q Sure.	10	are various regulations regarding ore reserve
11	A It's amazing how many reanalyses end up	11	reporting, models of deposits, mine plans, things
12	with nothing in them. And unless you know how	12	like that that miners have to abide by; correct?
13	they're re resampling and reanalyzing, you're	13	MS. O'DELL:
14	really not sure what's going on here. If they	14	Object
15	had a split of the original sample and came up	15	A You said regulations?
16	with nothing when the first split had something,	16	MR. FROST:
17	they should have run it a third time.	17	Q Yeah, regulations.
18	Q Okay. Well, let's look over to the	18	MS. O'DELL:
19	to page 4, or the fourth page of this. I don't	19	Object to the form.
20	believe it has page numbers.	20	MR. FROST:
21	A Okay.	21	Q Or laws and regulations.
22	Q About halfway through that paragraph it	22	MS. O'DELL:
23	states, "Retest samples were reanalyzed using	23	Object to the form as vague as to time
24	specific talc parameters on the XRF which should	24	and location.
	Page 283		Page 285
1	have been applied when the original samples were	1	A Yeah. The this you must be
2			J
2	analyzed."	2	talking about state-specific things.
3	analyzed." A With XRF?	2 3	
	•		talking about state-specific things.
3	A With XRF?	3	talking about state-specific things.  MR. FROST:  Q Let me the SEC, for example, has mining regulations. Are you aware of those?
3 4	A With XRF? Q XRF. I'm just reading from the	3 4	talking about state-specific things.  MR. FROST:  Q Let me the SEC, for example, has
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3 4 5 6 7	<ul> <li>A With XRF?</li> <li>Q XRF. I'm just reading from the document.</li> <li>A Uh-huh.</li> <li>Q "They were not applied because the analyst who typically runs the XRF was out of the office and her backup did not apply the</li> </ul>	3 4 5 6 7	talking about state-specific things.  MR. FROST:  Q Let me the SEC, for example, has mining regulations. Are you aware of those?  A Did you say SEC?  Q I said SEC.
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	Page 286		Page 288
1	Object to the form. Vague. It's	1	would, you know, cover, for example, the Windsor
2	unclear what you're asking.	2	Minerals operations in Vermont?
3	But if you understand the question	3	A I don't see how it would be that
4	but don't speculate as to what it means.	4	different from anything else, any other
5	A I I think I understand it.	5	operation.
6	The states, when you're gonna open up a	6	Q Okay. But, sitting here today, can you
7	mine, require certain information to be presented	7	tell me that what the regulations are that
8	in support of, really, your reclamation plan.	8	they're required to follow?
9	But in order to present a good reclamation plan,	9	A Well
10	you have to give them information about the	10	MS. O'DELL:
11	mining, the length of the mining operation, its	11	Object objection as to 1965 to
12	life, and some details about what you're doing.	12	2000
13	So each state can have slightly varying	13	MR. FROST:
14	requirements for that. But the whole idea is	14	Sure. I'm just asking generally if
15	they want your money. They want you to put up a	15	he's aware of any of the the regulations that
16	reclamation bond. And in order to figure out	16	are required, and then we can sort of focus in
17	exactly how hard to squeeze, they need some	17	from there.
18	information.	18	MS. O'DELL:
19	MR. FROST:	19	Well, you asked a question that relates
20	Q Okay. I'll ask it a different way	20	to today at Windsor Minerals. And I don't think
21	because I'm not just focusing in on reclamation.	21	Windsor Minerals is operating
22	But are you aware that there are	22	MR. FROST:
23	regulations and standards out there that mines	23	It it doesn't
24	have to follow regarding things like, you know,	24	MS. O'DELL:
	Page 287		Page 289
1	for example, model you know, how to model a	1	in Virginia Virginia Vermont
2	for example, model you know, how to model a how how to model a deposit, mine plan, things	2	in Virginia Virginia Vermont today.
2	for example, model you know, how to model a how how to model a deposit, mine plan, things of that nature?	2 3	in Virginia Virginia Vermont today. MR. FROST:
2 3 4	for example, model you know, how to model a how how to model a deposit, mine plan, things of that nature?  MS. O'DELL:	2 3 4	<ul><li> in Virginia Virginia Vermont today.</li><li>MR. FROST:</li><li>Q I'm not limiting my question today.</li></ul>
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	Page 290		Page 292
1	particulate matter in the air, food, your	1	Q No. Its yearly ongoing operations.
2	operation.	2	A Yeah. Okay. This is all totally
3	If you're gonna discharge water, you've	3	different, then. Yeah. That's when MSHA gets
4	got to have a water permit. If you	4	involved with you.
5	You have to have what we call bugs and	5	Q Okay. And MSHA's one, and there are
6	bunnies study. You've got to prove there's no	6	lots of regulatory agencies; correct?
7	endangered species.	7	A Yeah. Well, around here, MSHA's the
8	You've got to have an anthropological	8	one that you fear. Because when they show up,
9	study that proves that you're not impacting a	9	you're gonna get fined. I mean, they pay for
10	site of, you know, Indians.	10	their visit here to your property.
11	And then the final thing is you've got	11	And, so, there's a list of things that
12	to get a state mining permit. And in Alabama,	12	they look at that's as long as your arm. And if
13	the state mining permit is virtually a rubber	13	they can't find one of them out of compliance,
14	stamp. It may not be in other states. But in	14	they'll generate one.
15	Alabama, that's that's what you've got to do.	15	Q Okay. So other than the MSHA
16	And, I mean, I've done that three or four times	16	requirements, which are health and safety, can
17	in the last ten years.	17	you tell me any of the other
18	Q All right.	18	You know, I've mentioned JORC. It
19	A And, so, I would assume I would	19	seems like you're not familiar with the JORC
20	assume and, of course, there is once you	20	requirements. Correct?
21	say you're gonna gonna operate, you need to	21	A If I am, it's under another name or
22	post your reclamation bond. And that then	22	another agency applies their whatever their
23	requires you to present certain information. In	23	regs are.
24	our in Alabama, it's to a State Department.	24	Q Okay. But, sitting here, you know, you
	Page 291		Page 293
1	Q Okay. I'll ask it a different way.		
	Q Okay. The ask it a different way.	1	certainly can't say
2		1 2	certainly can't say For example, we don't need to go
2	Sitting here today, you can't tell me		For example, we don't need to go
	Sitting here today, you can't tell me what rules, laws, and regulations specifically	2	For example, we don't need to go A lot of the mine reports from from
3	Sitting here today, you can't tell me	2 3	For example, we don't need to go A lot of the mine reports from from the various miners talk about, you know,
3 4	Sitting here today, you can't tell me what rules, laws, and regulations specifically oversaw and that Windsor Myer Windsor Minerals	2 3 4	For example, we don't need to go A lot of the mine reports from from
3 4 5	Sitting here today, you can't tell me what rules, laws, and regulations specifically oversaw and that Windsor Myer Windsor Minerals was required to abide by from the period of 1965	2 3 4 5	For example, we don't need to go A lot of the mine reports from from the various miners talk about, you know, complying with JORC specifications. You couldn't
3 4 5 6	Sitting here today, you can't tell me what rules, laws, and regulations specifically oversaw and that Windsor Myer Windsor Minerals was required to abide by from the period of 1965 to the late 1990s when they were supplying talc	2 3 4 5 6	For example, we don't need to go A lot of the mine reports from from the various miners talk about, you know, complying with JORC specifications. You couldn't tell me what those specifications A What does JORC stand for?
3 4 5 6 7	Sitting here today, you can't tell me what rules, laws, and regulations specifically oversaw and that Windsor Myer Windsor Minerals was required to abide by from the period of 1965 to the late 1990s when they were supplying talc to Johnson & Johnson. Is that a fair statement?	2 3 4 5 6 7	For example, we don't need to go A lot of the mine reports from from the various miners talk about, you know, complying with JORC specifications. You couldn't tell me what those specifications A What does JORC stand for?
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Page 294		Page 296
regulations, and requirements in this case.	1	MS. O'DELL:
A No. But you're gonna make me go and	2	Object to the form.
look some stuff up.	3	A I have I have not. It's it's
Q Sure.	4	insufficient to to work with.
And would you agree with me that	5	MR. FROST:
compliance with laws, requirements, regulations	6	Q And, again, you know, you've you've
is one of the things	7	run no analysis to determine
Strike that. I'll ask it differently.		Well, we'll turn to the specifics when
You talk quite a bit in your report		we get to them.
about sampling methodologies. And do you agree	1	But don't you agree that it's important
		as a scientist, when you're making a
		determination that something is complete or not,
- ·		that it's based on the theories of peer-reviewed
		literature?
		MS. O'DELL:
MS. O'DELL:		Object to the form.
		A Is complete or not? MR. FROST:
A I'm sure there's		
Pardon me.		Q Yes. Like here, such as you know, your overall opinion that the sampling, for
		example, done by the mining company is a
		representative. As a scientist, don't you agree
		with me that it's important to base those
		opinions on empirical data?
competing theories or different theories, anyway,		opinions on empirical data.
Page 295		Page 297
about how to do sampling, how to calculate,	1	MS. O'DELL:
things of that nature; correct?	2	Object to the form.
A I don't know how competing they are. I	3	A It needs to be based on data. It sure
· · · · · · · · · · · · · · · · · · ·	4	does. I mean, and I think I've based my opinion
	5	on data and the lack thereof.
		MR. FROST:
was written in 1985	7	Q But you didn't run or attempt to run
	8	any type of statistical analysis to determine
	9	whether or not the sample was truly
	1	representative, the sample was
		MS. O'DELL:
	1	Object to the form.
· · · · · · · · · · · · · · · · · · ·	1	A No. And my point was that there's
		there's they're missing there are intervals
	1	in time where there's missing data.  MR. FROST:
	1	MR. FROST: Q Okay.
•	1	A When you have that, you can't do much.
· · · · · · · · · · · · · · · · · · ·	1	Q And you also agree with me, then, that
	1	your opinions regarding the adequacy of the
	1	sampling is based on an incomplete data set?
have not done any geostatistical analysis of any	22	MS. O'DELL:
in. a not done any goodaalbalour anarybis or any	1 22	
of the sampling data from either	23	Object to the form.
_	A No. But you're gonna make me go and look some stuff up. Q Sure. And would you agree with me that compliance with laws, requirements, regulations is one of the things — Strike that. I'll ask it differently. You talk quite a bit in your report about sampling methodologies. And do you agree with me there are probably thousands of papers that have been published about sampling methodologies, you know, how to determine whether or not a sample is representative of a greater group of ore and things like that; right? MS. O'DELL: Object to the form. A I'm sure there's — Pardon me. I'm sure there — I don't know that there's thousands, but I know there's a lot. MR. FROST: Q Okay. And there are a bunch of competing theories or different theories, anyway,  Page 295 about how to do sampling, how to calculate, things of that nature; correct? A I don't know how competing they are. I know that they evolve with time. If you took a good paper that tried to hammer all this out that was published in 2015 and compared it to one that was written in 1985 —	A No. But you're gonna make me go and look some stuff up. Q Sure. And would you agree with me that compliance with laws, requirements, regulations is one of the things — Strike that. I'll ask it differently. You talk quite a bit in your report about sampling methodologies. And do you agree with me there are probably thousands of papers that have been published about sampling methodologies, you know, how to determine whether or not a sample is representative of a greater group of ore and things like that; right?  MS. O'D'ELL: Object to the form. A I'm sure there's — Pardon me. I'm sure there's — Pardon me. I'm sure there are a bunch of competing theories or different theories, anyway,  Page 295  about how to do sampling, how to calculate, things of that nature; correct? A I don't know how competing they are. I know that they evolve with time. If you took a good paper that tried to hammer all this out that was published in 2015 and compared it to one that was written in 1985 — Q There'd be some differences. A Right. There might be competitive ideas in there. Q But you do agree with me sort of the underlying principle under most of the different theories is that you have to use geostatistics to determine whether or not what you're sampling is itself representative of the ore body; correct?  MS. O'D'ELL: Object to the form. A You — yeah. You would hope that that would happen. MR. FROST:

75 (Pages 294 to 297)

	Page 298		Page 300
1	sampling mechanisms are not described. There'll	1	well know.
2	be a place where it'll describe or will mention	2	A They have not suggested to me that
3	mechanical sampling, but it doesn't say when the	3	they've withheld anything. Whenever I've asked
4	mechanical sampling, but it doesn't say when the mechanical sampler was put in place to take the	4	for something, if they got it, they give it to
5		5	me. If they don't, I never see it.
	place of, say, a grab sample. Doesn't say what	6	MR. FROST:
6	type of mechanical sampler it was. Is it	7	
7	something that's sampling continuously or once an		Q But you're guessing that they're giving you everything. You have no way of telling me
8	hour an arm sweeps across a conveyor belt and	8	whether or not
9	grabs a sample? There are all kind of samplers.	9	
10	And when you've got some something	11	
11	as critical as as your cosmetic talc that		Q they are MS. O'DELL:
12	really requires, you know, careful attention, I	12	
13	would like to have seen exactly where in the	13	Excuse me. Are you finished with your
14	various process this sampling was taking place.	14	question?
15	And there there are references to	15	MR. FROST:
16	sampling at the mine itself, and we can't we	16	Yeah. I'm finished.
17	haven't seen the data. And yet there should be	17	MS. O'DELL:
18	hundreds and hundreds and hundreds of analyses of	18	Object to the form.
19	drill hole cuttings that are being put in as	19	You may answer.
20	blast holes. You know, I'm sure that if you're	20	A I don't know that that's a guess.
21	gonna do selective mining, you don't use a drill	21	MR. FROST:
22	hole spacing that's 10 feet on a on a side.	22	Q Well, you certainly have done nothing
23	That's what we use in the quarry. And we get	23	independently, nor have you been able to, to
24	huge amounts of rock.	24	verify that; correct?
	Page 299		Page 301
1	IC I 1 111		
	If I was gonna be selectively mining	1	A I've tried to break into their offices
2	talc, I would have smaller faces, tighter holes.	1 2	at night and see see if they had a big pile of
2	talc, I would have smaller faces, tighter holes. I would be I wouldn't be having more than a		at night and see see if they had a big pile of data they should have sent to me.
	talc, I would have smaller faces, tighter holes.  I would be I wouldn't be having more than a few thousand tons per blast. But I would know	2	at night and see see if they had a big pile of
3	talc, I would have smaller faces, tighter holes. I would be I wouldn't be having more than a few thousand tons per blast. But I would know exactly what I was fixing to blast and and	2	at night and see see if they had a big pile of data they should have sent to me.
3 4	talc, I would have smaller faces, tighter holes. I would be I wouldn't be having more than a few thousand tons per blast. But I would know exactly what I was fixing to blast and and that data, there are documents to indicate that	2 3 4	at night and see see if they had a big pile of data they should have sent to me.  Q Well, did you ever ask if you could
3 4 5	talc, I would have smaller faces, tighter holes. I would be I wouldn't be having more than a few thousand tons per blast. But I would know exactly what I was fixing to blast and and	2 3 4 5	at night and see see if they had a big pile of data they should have sent to me.  Q Well, did you ever ask if you could have access to the full database
3 4 5 6	talc, I would have smaller faces, tighter holes. I would be I wouldn't be having more than a few thousand tons per blast. But I would know exactly what I was fixing to blast and and that data, there are documents to indicate that	2 3 4 5 6	at night and see see if they had a big pile of data they should have sent to me.  Q Well, did you ever ask if you could have access to the full database A I'm
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3 4 5 6 7 8	talc, I would have smaller faces, tighter holes. I would be I wouldn't be having more than a few thousand tons per blast. But I would know exactly what I was fixing to blast and and that data, there are documents to indicate that the data sufficient to move in that direction exists. But we never got it.	2 3 4 5 6 7 8	at night and see see if they had a big pile of data they should have sent to me.  Q Well, did you ever ask if you could have access to the full database A I'm Q of documents? I'm not I know you're being
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	talc, I would have smaller faces, tighter holes.  I would be I wouldn't be having more than a few thousand tons per blast. But I would know exactly what I was fixing to blast and and that data, there are documents to indicate that the data sufficient to move in that direction exists. But we never got it.  Q Okay.  A We've asked for it.  Q And that's that's very important.  Because one I think we've already established, you have no way of telling whether or not you actually have all the documents that are relative are relevant to these points; correct?  MS. O'DELL:  O'bject.  MR. FROST:  Q You have only what plaintiffs' counsel has deemed to give you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	at night and see see if they had a big pile of data they should have sent to me.  Q Well, did you ever ask if you could have access to the full database A I'm Q of documents?    I'm not I know you're being facetious. A Yeah. Q But have you ever asked to have full access to the document database of the documents A If they're Q provided by Johnson & Johnson and Imerys? MS. O'DELL:    Object. A Pardon me.    No, certainly not, because of the number involved. What would I do with 800,000

	Page 302		Page 304
1	yourself against the database?	1	MS. O'DELL:
2	A No.	2	Objection to form.
3	Q So, again, you're just relying on what	3	A I'm not saying that at all. I am not
4	plaintiffs have given to you.	4	saying that. I'm saying that we have asked for
5	MS. O'DELL:	5	all of the data. And if what I've been given is
6	Object to the form.	6	all you've got, then fine. That's fine with me.
7	A I have absolutely no reason to doubt	7	But I'm not saying that I've got that there's
8	the honesty of Miss O'Dell and company.	8	a data set out there that you guys have held back
9	MR. FROST:	9	and not bothered to send in. I'm not gonna say
10	Q Well, I can tell you you don't have the	10	that.
11	complete copy complete compilation of all of	11	MS. O'DELL:
12	the	12	We've been going about an hour. Let's
13	A Well, one might ask why not since we've	13	take a short break.
14	asked for them over and over again.	14	MR. FROST:
15	Q I'm talking about the documents you	15	That's fine.
16	have, sir. I can tell you there are testing	16	VIDEOGRAPHER:
17	results, for example, that aren't provided	17	Going off the record. The time is 2:44
18	A Well	18	p.m.
19	MS. O'DELL:	19	(OFF THE RECORD.)
20	Object to	20	VIDEOGRAPHER:
21	MR. FROST:	21	We're back on the record. The time is
22	Q We'll go over some of them later.	22	3:01 p.m.
23	MS. O'DELL:	23	MR. FROST:
24	Object to the form.	24	Q I've sort of come up with another
	Page 303		Page 305
1	MR. FROST:	1	general question I forgot to ask. But would you
2	O A 1	1	
_	Q And we'll go over some of those later.	2	agree with me that compliance with legal
3	Q And we'll go over some of those later. But, again	2 3	agree with me that compliance with legal standards is an important consideration in
3 4			
	But, again	3	standards is an important consideration in
4	But, again So what we heard a lot of is you're not	3 4	standards is an important consideration in determining whether or not a mine is being
4 5	But, again So what we heard a lot of is you're not saying I've reviewed all the documents and I know	3 4 5	standards is an important consideration in determining whether or not a mine is being properly operated?
4 5 6	But, again — So what we heard a lot of is you're not saying I've reviewed all the documents and I know they're not using the correct equipment. It	3 4 5 6	standards is an important consideration in determining whether or not a mine is being properly operated?  A Yes.
4 5 6 7	But, again So what we heard a lot of is you're not saying I've reviewed all the documents and I know they're not using the correct equipment. It sounds like your opinion more is "I can't tell	3 4 5 6 7	standards is an important consideration in determining whether or not a mine is being properly operated?  A Yes.  Q All right. Turn to page 37 of your
4 5 6 7 8	But, again So what we heard a lot of is you're not saying I've reviewed all the documents and I know they're not using the correct equipment. It sounds like your opinion more is "I can't tell what they're using and there's incomplete data	3 4 5 6 7 8	standards is an important consideration in determining whether or not a mine is being properly operated?  A Yes.  Q All right. Turn to page 37 of your report.
4 5 6 7 8 9	But, again So what we heard a lot of is you're not saying I've reviewed all the documents and I know they're not using the correct equipment. It sounds like your opinion more is "I can't tell what they're using and there's incomplete data here," and that's sort of the basis for your	3 4 5 6 7 8	standards is an important consideration in determining whether or not a mine is being properly operated?  A Yes.  Q All right. Turn to page 37 of your report.  A Okay.
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77 (Pages 302 to 305)

	Page 306		Page 308
1	What number are we at?	1	A That's true.
2	THE COURT REPORTER:	2	Q Okay. We'll turn to 631362.
3	27.	3	(DEPOSITION EXHIBIT NUMBER 28
4	(DEPOSITION EXHIBIT NUMBER 27	4	WAS MARKED FOR IDENTIFICATION.)
5	WAS MARKED FOR IDENTIFICATION.)	5	MR. FROST:
6	MR. FROST:	6	Q And I'll direct your attention to page
7	Q I'll call your attention to page 5.	7	364, which is the callout from the report.
8	A Okay.	8	MS. O'DELL:
9	Q The first audit area, I take it that's	9	Bates number 364 at the end?
10	what you're referencing	10	MR. FROST:
11	A Yes.	11	That's correct. So it's 631364.
12	Q in the sample.	12	A Got it.
13	A Uh-huh.	13	MR. FROST:
14	Q Okay. And, again, you'd agree with me	14	Q Okay. And if you look down at number
15	that Intertek rates this audit area as minor;	15	14
16	correct?	16	Well, first off, do you agree that this
17	A I'm looking for a level 5 on here. I'm	17	is a Certificate of Analysis from the mining
18	not seeing I'm not seeing the level.	18	company, the Chinese mining company?
19 20	Q It's under the box that goes audit	19	A Yes.
21	area, finding, recommendation, and then rating.  Is is the bottom.	20	Q Okay. And if you look down at 14, the
22		21	document's been translated and it says: In the
23	, &	22	absence of asbestos, China SFDA method, none
24	Q Then it says "minor." A Right. Right. Sure.	23	detected by X-Ray Diffraction, none detected as
21	A Right. Right. Suite.	24	fibrous amphibole by Polarized Light Microscopy,
	Page 307		Page 309
1	Q Okay.	1	performed only if detected by X-ray diffraction,
2	A Excuse me. I was looking for the	2	et cetera.
3	letter the number 5.	3	So do you agree with me that this is
4	Q Oh. The number. Oh, okay. Sorry. It	4	the mine owner certifying that they've tested the
5	was page 5. I apologize if I caused confusion.	5	talc and it's come up as asbestos-free?
6	A Well, 5 is the rating for minor.		
	8	6	MS. O'DELL:
7	That's their minor rating.	6 7	
7 8			MS. O'DELL:
	That's their minor rating.  Q Oh, I see.  So you'd agree with me that whatever	7	<ul><li>MS. O'DELL:     Object to the form.</li><li>A It does not say that. It says they were unable to detect it with those techniques.</li></ul>
8	That's their minor rating.  Q Oh, I see. So you'd agree with me that whatever concerns they may have addressed, they rated this	7 8	MS. O'DELL: Object to the form.  A It does not say that. It says they were unable to detect it with those techniques.  And the limit of detection's like .1. So that's
8 9 10 11	That's their minor rating.  Q Oh, I see. So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?	7 8 9	MS. O'DELL: Object to the form.  A It does not say that. It says they were unable to detect it with those techniques.  And the limit of detection's like .1. So that's not what this says.
8 9 10 11 12	That's their minor rating.  Q Oh, I see. So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?	7 8 9 10 11 12	MS. O'DELL: Object to the form.  A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:
8 9 10 11 12 13	That's their minor rating.  Q Oh, I see. So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.	7 8 9 10 11 12 13	MS. O'DELL: Object to the form.  A It does not say that. It says they were unable to detect it with those techniques.  And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos,
8 9 10 11 12 13	That's their minor rating.  Q Oh, I see. So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.	7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form.  A It does not say that. It says they were unable to detect it with those techniques.  And the limit of detection's like .1. So that's not what this says.  MR. FROST: Q Well, it says "Absence of asbestos, none detected."
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8 9 10 11 12 13 14 15 16 17 18 19 20 21	That's their minor rating.  Q Oh, I see. So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes. A Yes.  Q Okay. Further down on page 37 of your report, next paragraph, sort of in the middle, you note that "As recently as 2016, Chinese testing for asbestos is implied in a Guilin Guiguang talc development company document, JNJ631362 at 364."  And then, further down, the next	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form.  A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST: Q Well, it says "Absence of asbestos, none detected." Do you agree with me there? A That is — that is the problem. They use this word "absence of asbestos" in their — their Certificates of Analyses, and yet the technique they're using can't justify that. Q So the reason you use the word "implied" is because they're using a nondetect

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	Page 310		Page 312
1	Q But, again, they're testing it by, you	1	not gonna know.
2	know, China SFDA method; correct?	2	And, so, it's improper for them to say
3	MS. O'DELL:	3	that there's no asbestos there. They should say
4	Object to the form.	4	no asbestos was detected. It's very simple.
5	A Their FDA method isn't necessarily	5	MR. FROST:
6	consistent with what J&J would like.	6	Q Again, isn't that what they're saying,
7	MR. FROST:	7	absence of asbestos showing the Chinese method
8	Q Okay. But, again, we have testing	8	and saying none detected?
9	here. They're doing it by x-ray diffraction, and	9	A No.
10	then polarized light microscopy is what the	10	Q I don't I don't understand. The
11	the notation says.	11	words they're using on this paper are exactly
12	A Right.	12	what you're explaining to me.
13	Q Correct?	13	A No, they're not.
14	A Correct.	14	Q I'm confused. All right. So it says
15	Q And you have no reason to doubt that	15	absence of asbestos.
16	or to say that the Chinese mine owner is lying on	16	A Stop.
17	their Certificate of Analysis; right?	17	Q Right?
18	MS. O'DELL:	18	A Stop right there. Absence of asbestos
19	Object to the form.	19	means there is none there. Correct?
20	A When he says "free from asbestos," he	20	Q Well, that's under the test items,
21	may be lying.	21	that's why
22	MR. FROST:	22	So if you look up, test items, it says,
23	Q And why	23	"Test, absence of asbestos." Right? Then it
24	A I mean, they do it all the time.	24	says, "Test method: China, SFDA method." And
	D 211		
	Page 311		Page 313
1	Believe me. I mean, that's not unusual. But	1	Page 313 then, under acceptance of criteria, it says "none
1 2		1 2	
	Believe me. I mean, that's not unusual. But		then, under acceptance of criteria, it says "none
2	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying	2	then, under acceptance of criteria, it says "none detected."
2	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying that there is a confusion of terminology is all.	2 3	then, under acceptance of criteria, it says "none detected." MS. O'DELL:
2 3 4	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying that there is a confusion of terminology is all. Q Okay. And you believe the confusion of	2 3 4	then, under acceptance of criteria, it says "none detected."  MS. O'DELL:  Object to the form.
2 3 4 5	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying that there is a confusion of terminology is all. Q Okay. And you believe the confusion of the terminology is that absence of as	2 3 4 5	then, under acceptance of criteria, it says "none detected."  MS. O'DELL:  Object to the form.  A That does not mean absence. I mean,
2 3 4 5 6	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying that there is a confusion of terminology is all. Q Okay. And you believe the confusion of the terminology is that absence of as	2 3 4 5 6	then, under acceptance of criteria, it says "none detected."  MS. O'DELL:  Object to the form.  A That does not mean absence. I mean, the two do not mean the same thing. That's
2 3 4 5 6 7	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying that there is a confusion of terminology is all. Q Okay. And you believe the confusion of the terminology is that absence of asbestos, none detected A They don't mean the same thing.	2 3 4 5 6 7	then, under acceptance of criteria, it says "none detected."  MS. O'DELL:  Object to the form.  A That does not mean absence. I mean, the two do not mean the same thing. That's that's my point.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Believe me. I mean, that's not unusual. But but I'm not accusing them of lying. I'm saying that there is a confusion of terminology is all.  Q Okay. And you believe the confusion of the terminology is that absence of asbestos, none detected A They don't mean the same thing. Q implies A They do not mean the same thing. Q Okay. And you don't believe that they are certifying here that, pursuant to the Chinese FSDA method, that this is, you know, certified as absent of asbestos? A If they're certi MS. O'DELL: Object to the form. A If they're certifying it as asbestos-free, then if I were Johnson & Johnson, I wouldn't I wouldn't be accepting that, because we've known all along that .1 is the lower detection limit using that that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	then, under acceptance of criteria, it says "none detected."  MS. O'DELL:  Object to the form.  A That does not mean absence. I mean, the two do not mean the same thing. That's that's my point.  MR. FROST:  Q So  A When you  Listen, this isn't that difficult.  When you say that you can't detect something, it doesn't mean it isn't there. It may be there but in a level lower than your detection limit. So when they're using those two techniques, there is a lower detection limit that that is really inadequate, I think, for Johnson & Johnson's purposes. Because you can't say that something is absent if you can only detect down to a tenth of a percent. And that's what's going on here.  Q Okay. And that's
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	Page 314		Page 316
1	sir.	1	Q That's the test. You agree with me
2	Q Let me ask my question. That's just	2	that's the test, and then the results are
3	your opinion, but we've already established the	3	truthfully reporting as you're requiring, because
4	FDA J4-1 method that they're required to test	4	it says "none detected."
5	requires XRD; correct?	5	A Correct.
6	A Absolutely.	6	MS. O'DELL:
7	And we've already established that	7	Objection. Objection to form.
8	you're not an expert and can sit here and say	8	Just give me a moment.
9	that asbestos below a level of .1 percent is	9	MR. FROST:
10	capable of causing human disease; correct?	10	Q And, again, and you're saying that this
11	MS. O'DELL:	11	is only an implication that there's not asbestos
12	Object to the form.	12	in this product because you disagree completely
13	A Human disease I'm not an expert in.	13	with the
14	MR. FROST:	14	A I'm not
15	Q Yeah. Exactly.	15	Q required testing method.
16	A So that has nothing to do with this.	16	MS. O'DELL:
17	Q And, again, they're saying free	17	Let him finish, please.
18	they're not saying there's no asbestos in here.	18	THE WITNESS:
19	They're saying	19	Sure. I'm sorry.
20	A Yes, they are.	20	MS. O'DELL:
21	Q No.	21	And then let me do the object
22	A They say an absence of asbestos.	22	Object to the form.
23	Q That's the test name, if you look at	23	A I don't think that there's an
24	the column. They're saying none detected.	24	implication here at all. I think that this is
	Page 315		Page 317
1	A If they say "none detected," that's	1	the crux of a large issue, and that is that J&J
2	fine.	2	would like for their talc product to be
3	Q And that's isn't that exactly what	3	asbestos-free. And that's great.
4	it says here?	4	But to say something is not detected
5	A It doesn't mean asbestos-free. So if	5	when your lower detection limit is actually quite
6	they're putting this in the asbestos-free column	6	high, that doesn't show that something is absent
7	and they're using that statement to show that	7	from your product. It doesn't show that it's
8	it's asbestos-free, that's not right.	8	asbestos-free.
9	Q So, again, where in this document does	9	And "absent of" and "free of," if
10	it say asbestos-free?	10	you I mean, we can get out Webster's
11	A I thought that you said that's what the	11	dictionary if you want to and argue this. But I
12	column was labeled.	12	would say that that most people would say that
13	Q The test is absence of asbestos.	13	those two things mean the same.
14	A That's asbestos-free.	14	MR. FROST:
15	Q And the no. It says absence of	15	Q Okay. And, again, you'd agree with me
16	asbestos. You are changing the words. Look at	16	that Johnson & Johnson requires that a particular
17	the document.	17	test be run on its tale; correct?
1.0	MS. O'DELL:	18	A I think so.
18	Object to the form.	19	MS. O'DELL:
19		20	Object to the form.
19 20	MR. FROST:		
19 20 21	Q It says absence of asbestos.	21	MR. FROST:
19 20 21 22	<ul><li>Q It says absence of asbestos.</li><li>A I'm not changing the words.</li></ul>	21 22	MR. FROST: Q Okay. And
19 20 21	Q It says absence of asbestos.	21	MR. FROST:

80 (Pages 314 to 317)

	Page 318		Page 320
1	MR. FROST:	1	problem.
2	As to asbestos. Talking about	2	Q Okay. Don't you agree with me that
3	asbestos.	3	every method of testing has a lower limit of
4	MS. O'DELL:	4	detection?
5	Over time or	5	MS. O'DELL:
6	MR. FROST:	6	Object to the form.
7	We're talking you know, right now	7	A That's that's tough. But I think,
8	we're talking J4-1, right, that testing method,	8	in general, that's probably a pretty good
9	the XRD testing method.	9	statement.
10	Q You agree that that's the testing	10	MR. FROST:
11	method that Johnson & Johnson and Imerys used;	11	Q Okay.
12	correct?	12	A I think the day is gonna come when
13	A That's right.	13	when there will be equipment that's good enough
14	Q You also agree that that's the method	14	to say, you know, under any circumstances,
15	that the FDA, you know, requires that talcum	15	there's none there.
16	powder be tested for asbestos; correct?	16	Q Okay.
17	MS. O'DELL:	17	A But I don't think we're quite there
18	Object to the form.	18	yet.
19	A I agree with all of that	19	Q Okay. And, going to your scenario, if
20	MR. FROST:	20	you told your student to go test that sample
21	Q Yeah. That's what I'm saying.	21	using XRD
22	A except that that doesn't prove that	22	A Right.
23	a product is free of asbestos. It only proves	23	Q and he tested it and came back and
24	that	24	said no asbestos
	Page 319		Page 321
1	Q I'm not asking that, sir.	1	A Right.
2	A Well, but that's what it said over and	2	Q you wouldn't fail him for that
3	over again in the COAs is "free of." And they	3	because he was following the test; correct?
4	need to say it's free of down to a detection	4	MS. O'DELL:
5	level of .1 percent.	5	Object to the form.
6	Q So your opinion is you just don't like	6	A No. I would. He should come back and
7	the terminology they're using, but you have no	7	say, "Why did you tell me to go to the x-ray
8	opinion that anything below a .1 would cause	8	machine to do this?"
9	disease or be dangerous to human health?	9	MR. FROST:
10	MS. O'DELL:	10	Q So even though you told him to go
11	Object to the form.	11	A Yeah.
12	A No. You keep adding human health in	12	Q So if you told somebody to go test
13	there. I'm not I'm not trying to opine about	13	something using this test method, you would still
14	human health. I'm just saying that if I had a	14	fail them when they came back and said "I used
15	student and I handed him a sample and I said "Is	15	the test method you told me and it"
16	there any asbestos in this or not," and he goes	16	A Well, it depends on what he comes back
17	to the x-ray machine and comes back and says,	17	with. If he comes back and says, you know, "I
18	"No, I couldn't find any by x-ray," I'll probably	18	know that there's a lower limit on the ability of
	give him an F.	19	this equipment to detect asbestos and, based on
19		20	that, I can't find any in here," he gets an A.
19 20	Q Okay.		
	Q Okay. A Because it doesn't mean that there's no	21	That's an A.
20	- ·	1	That's an A.  If he comes back and he says, "Oh, I
20 21	A Because it doesn't mean that there's no	21	

81 (Pages 318 to 321)

	Page 322		Page 324
1	determination, so I don't think there is any,"	1	types 30 and 40) and talc/carbonate schist (ore
2	well, I'd be irritated. That's not you know,	2	types 10 and 20.)"
3	that's not a good a good answer to come back	3	A Right.
4	to the teacher.	4	Q Okay. You agree with me that nowhere
5	Q Okay. And you'd agree with me that the	5	in here are they talking about ore type 66 which
6	FDA knows that .1 percent is the lower detection	6	was used in Johnson & Johnson in its talcum
7	limit on XRD? I mean, everybody sort of knows	7	powder?
8	that.	8	MS. O'DELL:
9	A I think so, sure.	9	Object to the form.
10	Q Okay. And still that's the test method	10	A They don't mention it.
11	that they've required; correct?	11	MR. FROST:
12	MS. O'DELL:	12	Q Okay. And, then, also on page 2, if
13	Object to the form. Misstates the law.	13	you look down to the next paragraph, second
14	A As far as I know today, it it is. I	14	sentence states, "Blast holes are analyzed for
15	know that there are modifications being	15	brightness, talc, and arsenic content and the
16	considered for sure.	16	presence of amphiboles."
17	MR. FROST:	17	MS. O'DELL:
18	Q Okay. But, as of today, you agree with	18	Where are you reading, Jack?
19	me that that's	19	MR. FROST:
20	A I think so.	20	It's third paragraph, second sentence.  MS. O'DELL:
21 22	MS. O'DELL:	21 22	
23	Object to the form. MR. FROST:	23	Okay. Thank you. MR. FROST:
24		24	Q Did I read that correctly?
21	Q Turn to page 37. Which I think we were	24	Q Bid Fread that correctly?
	Page 323		Page 325
1	on page 37, weren't we?	1	A Right.
2			
	A Yeah.	2	Q Okay. You'd agree with me that drill
3	A Yeah. Q So I'm gonna turn to the bottom	2 3	Q Okay. You'd agree with me that drill holes are production drill data; correct? That
3	Q So I'm gonna turn to the bottom	3	holes are production drill data; correct? That
3 4	Q So I'm gonna turn to the bottom paragraph.	3 4	holes are production drill data; correct? That blast holes are part of the production drill data
3 4 5	<ul><li>Q So I'm gonna turn to the bottom paragraph.</li><li>A Okay.</li></ul>	3 4 5	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?
3 4 5 6	<ul> <li>Q So I'm gonna turn to the bottom paragraph.</li> <li>A Okay.</li> <li>Q The second sentence starts:</li> <li>"Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and</li> </ul>	3 4 5 6	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce? MS. O'DELL:
3 4 5 6 7	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm	3 4 5 6 7	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL:  Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them
3 4 5 6 7 8	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore	3 4 5 6 7 8	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL:  Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.
3 4 5 6 7 8 9	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole."	3 4 5 6 7 8 9 10	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL:  Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST:
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3 4 5 6 7 8 9 10 11 12 13 14	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did.	3 4 5 6 7 8 9 10 11 12 13 14	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL:  Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST:  Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's you know,
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3 4 5 6 7 8 9 10 11 12 13 14 15	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29	3 4 5 6 7 8 9 10 11 12 13 14 15	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL: Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST: Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's you know, that's one of the reasons I cited this.  Q Okay. But, again, like you said, they
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.)	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL: Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST: Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's you know, that's one of the reasons I cited this. Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or
3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.) MR. FROST:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL:  Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST:  Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's you know, that's one of the reasons I cited this.  Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or amphibole. Don't they say directly here that
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q Do you recognize this document?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL: Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST: Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's you know, that's one of the reasons I cited this. Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or amphibole. Don't they say directly here that they're testing for the presence of amphibole?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q Do you recognize this document? A I do.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL: Object to the form.  A If you use them as such, yes. There—there are plenty of companies that don't use them other than just for blast holes.  MR. FROST: Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's — you know, that's one of the reasons I cited this. Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or amphibole. Don't they say directly here that they're testing for the presence of amphibole?  A They do.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q Do you recognize this document? A I do. Q First I'll call your attention to the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL: Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST: Q Okay. But here it seems like they are, because it says they're testing it. A Yes, correct. And that's you know, that's one of the reasons I cited this. Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or amphibole. Don't they say directly here that they're testing for the presence of amphibole? A They do. Q Okay.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q Do you recognize this document? A I do. Q First I'll call your attention to the second paragraph on page 2. And it states,	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL: Object to the form.  A If you use them as such, yes. There—there are plenty of companies that don't use them other than just for blast holes.  MR. FROST: Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's — you know, that's one of the reasons I cited this. Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or amphibole. Don't they say directly here that they're testing for the presence of amphibole?  A They do. Q Okay. A My issue was we didn't have any test
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q So I'm gonna turn to the bottom paragraph. A Okay. Q The second sentence starts: "Production drill data do not seem to include asbestos (chrysotile or amphibole) testing, and in relation to drill cores taken from the Hamm mine, for example, Imerys did not sample talc ore intervals containing visible fibrous amphibole." Then you say Imerys 238270. Did I read that correctly? A I think you did. Q Let's look at 238270. (DEPOSITION EXHIBIT NUMBER 29 WAS MARKED FOR IDENTIFICATION.) MR. FROST: Q Do you recognize this document? A I do. Q First I'll call your attention to the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	holes are production drill data; correct? That blast holes are part of the production drill data a mine would produce?  MS. O'DELL:  Object to the form.  A If you use them as such, yes. There there are plenty of companies that don't use them other than just for blast holes.  MR. FROST:  Q Okay. But here it seems like they are, because it says they're testing it.  A Yes, correct. And that's you know, that's one of the reasons I cited this.  Q Okay. But, again, like you said, they do not seem to include asbestos, chrysotile, or amphibole. Don't they say directly here that they're testing for the presence of amphibole?  A They do.  Q Okay.

82 (Pages 322 to 325)

	Page 326		Page 328
1	know, the statement you attribute to this	1	A No, no. They're rejecting the analysis
2	document is that production drill data does not	2	of it. They don't say they're rejecting the
3	seem to include asbestos, but it shows here	3	the ore. I mean, that that would be a
4	they're specifically testing for it; correct?	4	completely different thing.
5	MS. O'DELL:	5	If I if I was drilling at, say, Hamm
6	Object to the form. That's not what	6	and pulled out a piece of drill core that had a
7	his statement is in his report.	7	foot of cross-fiber asbestos in it, I'd sure want
8	MR. FROST:	8	to know everything about it, where it was, where
9	Q Okay. Well, I thought I read it	9	it went, is it truly asbestos, what's the
10	correctly.	10	mineralogy, what's it associated with. I
11	I'll also turn your attention to page	11	wouldn't remove it from the core and throw it
12	4.	12	away.
13	A Okay.	13	Q So, based on this one single sentence
14	Q And the last sentence says, "Talc ore	14	in this one document, you are assuming that
15	observed to contain fibrous amphibole was not	15 16	because they're not testing what they already
16 17	included in a sample interval."	17	have identified as fibrous amphiboles, that
	And that's what you note in your		they're including it in the ore?  MS. O'DELL:
18 19	report; correct?	18 19	
20	A Right.	20	Object to form.  A No, no. I didn't say that at all.
21	Q Okay. A Yeah, that would that I can't	21	A No, no. I didn't say that at all.  MR. FROST:
22	understand why they wouldn't have pulled it out,	22	Q But so the whole point of testing's
23	looked at it to see if it is truly asbestos or	23	to figure out where, for example, asbestos would
24	not.	24	be and where it wouldn't be in the deposit;
21	not.		be and where it wouldn't be in the deposit,
	Page 327		Page 329
1	Q Well, that that kind of becomes my	1	correct?
_			correct.
2	question.	2	A It's it's that and to determine
3	Sorry. I didn't mean to interrupt him.	2 3	A It's it's that and to determine the the characteristics of the fibrous
3 4	Sorry. I didn't mean to interrupt him. If you're not done sorry.	2 3 4	A It's it's that and to determine the the characteristics of the fibrous amphibole.
3 4 5	Sorry. I didn't mean to interrupt him. If you're not done sorry. MS. O'DELL:	2 3 4 5	A It's it's that and to determine the the characteristics of the fibrous amphibole.  Q And, again, if you're trying to come up
3 4 5 6	Sorry. I didn't mean to interrupt him. If you're not done sorry. MS. O'DELL: You may finish.	2 3 4 5 6	A It's it's that and to determine the the characteristics of the fibrous amphibole.  Q And, again, if you're trying to come up with a mine plan, you're trying to figure out
3 4 5 6 7	Sorry. I didn't mean to interrupt him.  If you're not done sorry.  MS. O'DELL: You may finish.  A Yeah. That was one of the reasons that	2 3 4 5 6 7	A It's it's that and to determine the the characteristics of the fibrous amphibole.  Q And, again, if you're trying to come up with a mine plan, you're trying to figure out where you should take ore from and where you
3 4 5 6 7 8	Sorry. I didn't mean to interrupt him.  If you're not done — sorry.  MS. O'DELL:  You may finish.  A Yeah. That was one of the reasons that I mentioned this. And there — there are other	2 3 4 5 6 7 8	A It's it's that and to determine the the characteristics of the fibrous amphibole.  Q And, again, if you're trying to come up with a mine plan, you're trying to figure out where you should take ore from and where you shouldn't. Correct?
3 4 5 6 7 8	Sorry. I didn't mean to interrupt him.  If you're not done sorry.  MS. O'DELL:  You may finish.  A Yeah. That was one of the reasons that I mentioned this. And there there are other places where it's pretty clear that they they	2 3 4 5 6 7 8	A It's it's that and to determine the the characteristics of the fibrous amphibole.  Q And, again, if you're trying to come up with a mine plan, you're trying to figure out where you should take ore from and where you shouldn't. Correct?  A Correct. And this is I mean, this
3 4 5 6 7 8 9	Sorry. I didn't mean to interrupt him.  If you're not done sorry.  MS. O'DELL:  You may finish.  A Yeah. That was one of the reasons that I mentioned this. And there there are other places where it's pretty clear that they they actually rejected core from analysis, and yet	2 3 4 5 6 7 8 9	A It's it's that and to determine the the characteristics of the fibrous amphibole.  Q And, again, if you're trying to come up with a mine plan, you're trying to figure out where you should take ore from and where you shouldn't. Correct?  A Correct. And this is I mean, this is part of my point. I mean, what happens if the
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	Page 330		Page 332
1	A this could be very, very bad.	1	A The concern is that they didn't pull it
2	MS. O'DELL:	2	out and test it. And there are other there
3	Let him finish.	3	are other statements, maybe not in this
4	MR. FROST:	4	particular document, where they actually talk
5	Q So you're speculating that because they	5	about removing the intervals and throwing them
6	weren't specifically testing something they've	6	away.
7	already identified as asbestos, that they're	7	Q Okay. So, again, your whole basis is
8	leaving it out of the mine plan?	8	they've identified it's asbestos, but they
9	A Did they call that asbestos?	9	haven't tested to see exactly what type of
10	Q They called it fibrous amphibole.	10	asbestos it is?
11	A Right.	11	A Fibrous amphibole.
12	Q So	12	MS. O'DELL:
13	But you're saying the whole theory is	13	Excuse me.
14	that somebody might come later and might not know	14	MR. FROST:
15	what it is. But that means that this wasn't	15	Q Okay.
16	included on a mine plan.	16	MS. O'DELL:
17	A That's not what I said.	17 18	Excuse me. Just let me object.  MR. FROST:
18	Q So you're drawing a	19	
19	No, no?	20	Okay. MS. O'DELL:
20	You're drawing a lot of conclusions	21	Give me a minute.
21	that aren't supported by this document. Do you	22	THE WITNESS:
22	agree with me?	23	Sure.
23	A That is not	24	MS. O'DELL:
24	MS. O'DELL:	24	NIS. ODELL.
	Page 331		Page 333
			1496 333
1	Excuse me.	1	Don't interrupt him.
1 2	Excuse me.  A That is not what I said.	1 2	Don't interrupt him. MR. FROST:
			Don't interrupt him.
2	A That is not what I said.  MR. FROST:  Q Okay. Let's turn to page	2	Don't interrupt him.  MR. FROST: Q Okay. Can you turn to page 1, please.  MS. O'DELL:
2 3 4 5	<ul> <li>A That is not what I said.</li> <li>MR. FROST:</li> <li>Q Okay. Let's turn to page</li> <li>A I did not say that.</li> </ul>	2 3 4 5	Don't interrupt him.  MR. FROST: Q Okay. Can you turn to page 1, please.  MS. O'DELL: Object to the form.
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2 3 4 5 6 7 8	<ul> <li>A That is not what I said.</li> <li>MR. FROST:</li> <li>Q Okay. Let's turn to page</li> <li>A I did not say that.</li> <li>MS. O'DELL:  He's not finished yet.</li> <li>A This is very simple. When you're</li> </ul>	2 3 4 5 6 7 8	Don't interrupt him.  MR. FROST: Q Okay. Can you turn to page 1, please.  MS. O'DELL: Object to the form. Have you finished your answer, Doctor?  If you have, fine. MR. FROST:
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11 A That's correct.  12 Q And you also you note somewhere else also in your report in the beginning that, as a rule of thumb, they used, you know, exclusion zones.  14 A Selective mining.  15 A Selective mining.  16 A Selective mining.  17 Q Yeah.  18 So, again, if they know where it is, they know how far it extends into the dike and it's they're using exclusion zone, don't they know where this fibrous amphibole is and aren't they know where this fibrous amphibole is and aren't they do widing it?  19 A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  10 A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  10 A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  11 A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  12 A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  12 A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  12 A A In that one point where that one drill hole goes through the zone that has fibrous amphibole, we're gonna assume it's asbestos.  12 A A In that one point where that one drill hole is really all you need, and you - you can design a mine around that one hole.  15 A I Indon't believe there was any commentary. Misstates the report.  16 MR. FROST:  17 A In that one obdies out here.  18 But that's not - that's not the shape, size of the ore bodies out here.  19 A I didn't say that.  20 A I didn't say that.  21 C Well, that's what your answer you just gave me implied, that  22 A No. I said  23 A No. I said  24 do Die to the commentary. Misstates the report.  25 do the creative the order of the west winds or millin				
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85 (Pages 334 to 337)

	Page 338		Page 340
1	And, in my experience, it's not it's	1	that all fibrous amphibole is asbestos? It's
2	not a good idea to to ignore something that	2	fine with me if we do.
3	you see in drill core that may be deleterious	3	MR. FROST:
4	without without testing it, maybe even	4	Q Well, they called it here fibrous
5	drilling a second hole.	5	amphibole actinolite.
6	There's a process known as hole	6	A I know. They don't use the word
7	twinning, and a person might have wanted to	7	"asbestos."
8	it's almost like the duplicate analysis. It	8	Q Okay.
9	doesn't find anything the second time. Sometimes	9	A Okay. So so let's call it asbestos.
10	you drill a second hole five feet away and	10	To know whether or not something's actinolite,
11	there's nothing there. Hey, good.	11	you've got to know the chemistry, and you can't
12	MR. FROST:	12	do that by logging drill core.
13 14	Q So this is why I'm confused. I mean,	13	If it's if it's a green fibrous
15	again, this document doesn't talk about twinning.  It doesn't talk about	14 15	amphibole, then if I was logging it, I'd assume
16	A No, no.	16	it was actinolite. Okay. Go with it. I The point of all this is that
17	Q They may have been doing all these	17	that that a fibrous amphibole in a drill hole,
18	things. You're talking now in sort of	18	even if it's at the ore body margin, is an
19	generalities as far as mining goes.	19	important thing.
20	A I'm trying to be as specific as I can.	20	Q Okay.
21	MS. O'DELL:	21	A And I would have done more than just
22	Object to the form.	22	than just pass it off, which is the feeling that
23	MR. FROST:	23	I got when I read that, that they didn't do
24	Q But what I'm saying is	24	anything with it but record it. So, okay.
	Page 339		Page 341
1	Let's see. What do we have here?	1	Q And can you give me
2	Let's see. What do we have here? So you have, "Imerys did not sample	2	Q And can you give me Because you say here, you know, that
2	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous	2	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling
2 3 4	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted	2 3 4	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices.
2 3 4 5	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."	2 3 4 5	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes.
2 3 4 5 6	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices." But, again, if they know that this	2 3 4 5 6	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What
2 3 4 5 6 7	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained	2 3 4 5 6 7	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What published literature, what regulation, what law?
2 3 4 5 6 7 8	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained asbestos, we know they've identified where it is	2 3 4 5 6 7 8	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What published literature, what regulation, what law? A There's
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2 3 4 5 6 7 8 9	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained asbestos, we know they've identified where it is on the mine plan because they say that on, one, fibrous amphibole was observed only within the	2 3 4 5 6 7 8 9	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What published literature, what regulation, what law? A There's Oh, this isn't a legal issue at all. But if you
2 3 4 5 6 7 8 9 10	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained asbestos, we know they've identified where it is on the mine plan because they say that on, one, fibrous amphibole was observed only within the chloritized mafic dikes, extending in places a	2 3 4 5 6 7 8 9 10	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What published literature, what regulation, what law? A There's Oh, this isn't a legal issue at all. But if you There are many books that have been
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained asbestos, we know they've identified where it is on the mine plan because they say that on, one, fibrous amphibole was observed only within the chloritized mafic dikes, extending in places a couple inches into the containing [sic] talc ore. We know they've already identified it as actinolite asbestos.  A Well, they describe Q What are they leaving out of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What published literature, what regulation, what law? A There's Oh, this isn't a legal issue at all. But if you There are many books that have been written about the evaluation and sampling of a mine. And when you when you hit a critical interval, if it's a channel sample underground that you're cutting with your rock hammer, if you're digging a trench at the surface, if you're
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained asbestos, we know they've identified where it is on the mine plan because they say that on, one, fibrous amphibole was observed only within the chloritized mafic dikes, extending in places a couple inches into the containing [sic] talc ore.  We know they've already identified it as actinolite asbestos.  A Well, they describe Q What are they leaving out of the analysis? Just that they're confirming that what they believe is fibrous amphibole actinolite actually is fibrous amphibole actinolite?  MS. O'DELL: Object to the form. Misstates the document.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices. A Yes. Q What are you relying on for that? What published literature, what regulation, what law? A There's Oh, this isn't a legal issue at all. But if you There are many books that have been written about the evaluation and sampling of a mine. And when you when you hit a critical interval, if it's a channel sample underground that you're cutting with your rock hammer, if you're digging a trench at the surface, if you're drilling a drill hole, when when you when you hit something that's significant relative to the commodity you're looking at, you normally do more with it than just make a note, "Oh, there it is," and move on. Q Okay. And what from this document
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Let's see. What do we have here? So you have, "Imerys did not sample talc ore intervals containing visible fibrous amphiboles. This is contrary to all accepted sampling practices."  But, again, if they know that this particular section of the drill core contained asbestos, we know they've identified where it is on the mine plan because they say that on, one, fibrous amphibole was observed only within the chloritized mafic dikes, extending in places a couple inches into the containing [sic] talc ore. We know they've already identified it as actinolite asbestos.  A Well, they describe Q What are they leaving out of the analysis? Just that they're confirming that what they believe is fibrous amphibole actinolite?  MS. O'DELL: Object to the form. Misstates the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q And can you give me Because you say here, you know, that this is contrary to all accepted sampling practices.  A Yes. Q What are you relying on for that? What published literature, what regulation, what law? A There's Oh, this isn't a legal issue at all.  But if you There are many books that have been written about the evaluation and sampling of a mine. And when you when you hit a critical interval, if it's a channel sample underground that you're cutting with your rock hammer, if you're digging a trench at the surface, if you're drilling a drill hole, when when you when you hit something that's significant relative to the commodity you're looking at, you normally do more with it than just make a note, "Oh, there it is," and move on.

	Page 342		Page 344
1	Page 342	1	
1 2	A We have no mine plan. O So	1 2	And a lot of times you blame that on
3	Q So A We've asked for the mine plan.	3	the driller, but but it may simply be because of a characteristic of the rock itself.
4	Q So you're basing everything off the	4	And, so, there when you when you
5	fact that you haven't seen a mine plan? So	5	· · · · · · · · · · · · · · · · · · ·
6	you've read that in conjunction with this	6	look at all the drill core data, what you find is that there there are drill holes that that
7	document to say that they are just ignoring the	7	
8	fibrous amphibole that they're finding and moving	8	we have missing we have missing core, and it's not the fault of anybody. Probably it's just the
9	on, which is contrary to standard	9	rock.
10	MS. O'DELL:	10	
11	Excuse me		Then we have areas where there's
12	A That's absolutely not what I said.	11	actually notations that the drill core has been
13	MS. O'DELL:		discarded, removed from the core box, and thrown
14	Excuse me. Object to the form.	13	away. And that's suspicious.
15	A Did not say that.	14	Q Okay.
16	MS. O'DELL:	15	A And that's, you know, part of the big
17	Object to the form. Misstates his	16	picture here.
18	testimony.	17	Q But, again, the only document you're
19	A Really. I didn't say that.	18	showing for reliance to the statement that this
20	MR. FROST:	19	is contrary to all accepted sampling practices is
21	Q So, again, what what is it that	20	Imerys 238270, which shows that they have
22	they're doing here that is contrary to standard?	21	identified there's a potential problem in the
23	Is it purely that they're not testing to see	22	body. They've also identified where it is, and
24	exactly what the fibrous actinolite or the	23	they've identified that they're avoiding it;
	exactly what the horous actinomic of the	24	correct?
	Page 343		Page 345
1	What do they call it?	1	MS. O'DELL:
1 2	What do they call it? fibrous amphibole actinolite is? Is	1 2	
	•		MS. O'DELL:
2	fibrous amphibole actinolite is? Is	2	MS. O'DELL:  Object to the form. He just stated that there are numerous other references. You're misstating his testimony.
2	fibrous amphibole actinolite is? Is that is that your	2 3	MS. O'DELL: Object to the form. He just stated that there are numerous other references. You're
2 3 4	fibrous amphibole actinolite is? Is that is that your Your main gripe is that they haven't	2 3 4	MS. O'DELL:  Object to the form. He just stated that there are numerous other references. You're misstating his testimony.
2 3 4 5	fibrous amphibole actinolite is? Is that is that your Your main gripe is that they haven't confirmed whether or not it's asbestiform or not asbestiform?  A That would be	2 3 4 5	MS. O'DELL:  Object to the form. He just stated that there are numerous other references. You're misstating his testimony.  A This this document doesn't say that
2 3 4 5 6	fibrous amphibole actinolite is? Is that is that your Your main gripe is that they haven't confirmed whether or not it's asbestiform or not asbestiform?	2 3 4 5 6	MS. O'DELL: Object to the form. He just stated that there are numerous other references. You're misstating his testimony.  A This this document doesn't say that they're avoiding it. I don't think it does.
2 3 4 5 6 7	fibrous amphibole actinolite is? Is that is that your Your main gripe is that they haven't confirmed whether or not it's asbestiform or not asbestiform?  A That would be	2 3 4 5 6 7	MS. O'DELL: Object to the form. He just stated that there are numerous other references. You're misstating his testimony.  A This this document doesn't say that they're avoiding it. I don't think it does.  MR. FROST:
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87 (Pages 342 to 345)

	Page 346		Page 348
1	straight, flat plane, that's one thing. You	1	types of mining, that you are relying on the
2	can if you've got something going two inches	2	quality of the mine supervisor and the data in
3	into it, by George, stay five feet away.	3	order to define where the ore body is. Is that a
4	But that's not what the margins of	4	fair statement?
5	these ore bodies are like. They're irregular.	5	MS. O'DELL:
6	MR. FROST:	6	Object to the form.
7	Q Okay.	7	A I think that that's, you know, that
8	A And, so, if you're gonna produce a mine	8	could be the opening sentence on a paragraph on
9	plan that assumes that you've got two inches of	9	ore reserve estimation.
10	an asbestiform mineral here and so you you	10 11	MR. FROST:
11	plan your scope or your bench based on that but	12	Q Okay.
12 13	your bench may be 15 feet this way and you're	13	A I mean, it's just standard you know,
14	assuming that it's here, well, this thing could be irregular, and the margin of the ore body may	14	standard protocol in mining. You take all your data and figure out where the ore is.
15	be over here and you don't know it because your	15	Q Then later, turning back to 37, next
16	next drill hole is way up here.	16	sentence down, you wrote, "By 2006, all Imerys
17	Q Okay.	17	Vermont talc production was from a single open
18	A That's what I'm trying to say.	18	pit in the Argonaut mine that produced 150,000
19	Q And it sounds like your opinion is a	19	tons of talc per year," and you note "none used
20	problem with all mining, because that's true of	20	for cosmetic purposes in the United States
21	every ore body that's gonna be irregular;	21	(Imerys 499538)."
22	correct?	22	Correct?
23	MS. O'DELL:	23	MS. O'DELL:
24	Object to the form.	24	I'm sorry. Where are you?
	D 247		D 310
1	Page 347	1	Page 349
1	MR. FROST:	1	A I think that's right.
2	MR. FROST: Q And it's not specific to what's going	2	A I think that's right. MR. FROST:
2	MR. FROST: Q And it's not specific to what's going on here. I believe this is the Hamm mine.	2 3	A I think that's right. MR. FROST: 37 to 38.
2 3 4	MR. FROST: Q And it's not specific to what's going on here. I believe this is the Hamm mine. A It	2 3 4	A I think that's right.  MR. FROST: 37 to 38.  MS. O'DELL:
2 3 4 5	MR. FROST: Q And it's not specific to what's going on here. I believe this is the Hamm mine. A It MS. O'DELL:	2 3 4 5	A I think that's right.  MR. FROST: 37 to 38.  MS. O'DELL: Oh, at the bottom. Okay.
2 3 4 5 6	MR. FROST:  Q And it's not specific to what's going on here. I believe this is the Hamm mine.  A It  MS. O'DELL:  Object to the form.	2 3 4 5 6	A I think that's right.  MR. FROST: 37 to 38.  MS. O'DELL: Oh, at the bottom. Okay.  MR. FROST:
2 3 4 5 6 7	MR. FROST:  Q And it's not specific to what's going on here. I believe this is the Hamm mine.  A It  MS. O'DELL:  Object to the form.  A It can be better or worse. But but	2 3 4 5 6 7	A I think that's right.  MR. FROST: 37 to 38.  MS. O'DELL: Oh, at the bottom. Okay.  MR. FROST: The bottom.
2 3 4 5 6 7 8	MR. FROST:  Q And it's not specific to what's going on here. I believe this is the Hamm mine.  A It  MS. O'DELL:  Object to the form.  A It can be better or worse. But but the idea is, yes, ore bodies are, you know	2 3 4 5 6 7 8	A I think that's right.  MR. FROST: 37 to 38.  MS. O'DELL: Oh, at the bottom. Okay.  MR. FROST: The bottom.  Q Next sentence is, "Serpentine and
2 3 4 5 6 7 8	MR. FROST:  Q And it's not specific to what's going on here. I believe this is the Hamm mine.  A It  MS. O'DELL:  Object to the form.  A It can be better or worse. But but the idea is, yes, ore bodies are, you know with some exceptions, they can be irregular	2 3 4 5 6 7 8 9	A I think that's right.  MR. FROST: 37 to 38.  MS. O'DELL: Oh, at the bottom. Okay.  MR. FROST: The bottom.  Q Next sentence is, "Serpentine and arsenic occurred near the edges of the ore zone,
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88 (Pages 346 to 349)

	Page 350	Page 35
1	documents that you have, that you can't make a	1 composite on the back end. Correct?
2	full map of sampling frequency, where exactly	2 MS. O'DELL:
3	samples were coming from, you know, how they	3 Object to the form.
4	were how they were being taken. I think we	4 A The
5	covered this earlier. Is that correct?	5 I think that that your statement is
6	MS. O'DELL:	6 correct, based on what your own documents say.
7	Object to the form. What type of	7 MR. FROST:
8	MR. FROST:	8 Q Uh-huh.
9	Q You know, there are there are holes	9 A You know, they say, you know, sampling
10	in the documents about frequency of testing,	10 intervals will be such and so, at what points
11	frequency of sampling, things of that nature.	11 they're gonna be.
12	Correct?	We know that we don't have all the data
13	A Are you talking about in the mine or in	for for the mines. Because if they're gonna
14	the mill of	analyze the cutting from blast holes, there's got
15 16	Q In general in the mines. Exactly. MS. O'DELL:	to be just tons of analyses out there.
		16 Q Okay.
17 18	Excuse me. Object to the form. What specific types of	17 A And and and, in the mill, it's
19	MR. FROST:	very difficult to know because, you know, when
20	Well, that's what we were trying to	you're looking at at compositing samples that
21	define.	are taken, you know, that that becomes a
22	Q You know, we're talking about in	21 different issue in itself.
23	general. You know, we'll start with there	22 Q Okay. All right. We're in agreement
24	appears to be you know, you don't have a	23 that you certainly whether or not it was
		24 produced, not produced, you know, you don't have
	Page 351	Page 35
1	complete you don't have a complete set of all	a complete set of all the sampling that was done
2	drill core sampling; correct?	at the mines, mills, and on the composite back
3	MS. O'DELL:	3 end. Is that a fair summary?
4	Object to the form.	4 MS. O'DELL:
5	MR. FROST:	5 Object to the form.
6	Q In your documents.	6 A Yeah.
7	A I don't know that.	7 MS. O'DELL:
8	Q Okay. But you cert there certainly	8 "Composite back end," I'm not sure what
9	doesn't appear that you have and I think	9 you're referring to.
10	you've identified earlier that you appear to be	10 MR. FROST:
11	missing years and missing drill core area;	11 Q Yeah. The composite back end testing
12	correct?	12 of the
13	MS. O'DELL: Object to the form. He didn't say that	13 A Yeah. I think the word 14 O the ground product.
14 15	Object to the form. He didn't say that in his testimony. Not in regard to drill core.	14 Q the ground product. 15 A isn't "sampling," but we don't have
16	A We we have maps that show the	16 a complete set of analytical data. We know about
17	location of drill holes. We do not have logs for	the sampling, but it's it's the data and more
18	all of those drill holes.	18 information related to the data that we don't
19	MR. FROST:	19 have.
20	Q Okay. And the same thing with	20 Q Okay. That's a more precise way of
	sampling. It does not appear that you have a	21 saying it.
7	complete set of the sampling records; correct?	22 A Yeah. Sure.
21 22	SAMORAN AND THE SOURCE TERRITORS CONTECT!	
22		23 O Okay Turn to page 39
	A For the mines? Q For the mines, the mill, and for the	23 Q Okay. Turn to page 39. 24 A Okay.

89 (Pages 350 to 353)

#### Page 356 Page 354 1 You say, quote, "It is inadequate -- it 1 sample was taken. 2 2 is inadequate to collect a single daily or hourly Right. You may have a day that it is, 3 hand or grab sample from an ore stockpile in 3 but the problem is you may have a day when it 4 front of a crusher, or from a conveyor belt 4 really isn't and something slips by that you 5 leaving a grinding circuit, and assume that this 5 don't want to slip by. 6 one sample or a composite, perhaps a kilogram in 6 But what I'm getting at is the only way 7 size, is representative of a day's production of 7 to truly derive if something is representative is 8 several hundred tons." 8 to run the --9 Did I read that correctly? 9 You know, all of the literature agrees 10 A Yep. 10 that the only way to truly determine something is 11 Don't you agree with me the only way to Q 11 representative or not is to run a statistical 12 determine whether or not a sample is actually 12 analysis of it; correct? 13 representative of the whole is to conduct a 13 MS. O'DELL: 14 geostatistical analysis of that sample versus the 14 Object to the form. 15 size? 15 You -- you determine the -- the 16 MS. O'DELL: 16 confidence interval of the process that you're 17 Object to the form. 17 proposing. And if you wanted to have something 18 Well, I think that it's much more than 18 that you were 95 percent confident was correct, 19 that. I would -- I would say that -- that, if I 19 then, you know, you begin to work backwards and 20 was designing a sampling program for, let's say, 20 take a look at how you're sampling. the West Windsor mill, I would want to have a 21 21 MR. FROST: 2.2 person that was in charge of sampling and 22 Q Okay. 23 analyses. 23 Α I mean, that's a process -- a technique 24 We have somebody like that at one of 24 that's been around for a long time. Page 355 Page 357 1 our mines up the road here. It adds a nickel a 1 But it's very difficult to apply that 2 ton to the cost of our production, and -- and yet 2 to feed coming into a plant. And that was my we are able to sample daily multiple times and 3 point. You know, if you don't -- if you don't 3 run all the samples that day, and at the end of 4 have a formal sampling, you know, analysis 4 5 the day, we know what's gone in the railcar. 5 program set up where ore enters the mill or, 6 There is no ambiguity at all. 6 let's say, enters a stockpile that's gonna feed 7 And that's not what -- what's been 7 the mill from, then -- then I think that you've 8 8 done. got an issue right from the very start. Because 9 MR. FROST: 9 no matter what you feed your statistical 10 10 analysis, if you're not collecting your samples Q Okay. 11 I mean, you can't just grab a few 11 properly, it's not -- not gonna matter what the pieces of rock and analyze them and say, "Oh, 12 mass says. 12 that's -- that's representative of what we mined 13 13 And believe me, we've -- we've been 14 today." 14 gigged on this. We have had railcars --15 "Well, how many tons did you mine?" 15 We ship out in 60-car lots, and we have 16 "Oh, it was three or four hundred 16 had whole trainloads rejected because of 17 tons." 17 out-of-spec ore in one car. And when you're 18 That doesn't work. 18 losing 60 -- 59 other cars that are probably good, I mean, this -- this is an important point. 19 Well, let's see. Even you say, the 19 20 next sentence down, that -- you say -- you 20 Okay. You'd agree with me the reason 21 yourself say it may or may not be representative; 21 you say you may or may not be representative is because you haven't done any calculations as to 22 correct? You say it may or may not be 22 23 representative of the material processed on the 23 the confidence interval; correct?

90 (Pages 354 to 357)

24

MS. O'DELL:

24

individual sample -- on the day the individual

	Page 358		Page 360
1	Object to the form. Misstates his	1	Q You'll we will agree that TEM is an
2	testimony.	2	appropriate instrument to use to test to see if
3	A No. Like I said, I haven't done any	3	there is asbestos in talc; right?
4	mathematical analysis of anything. But I've	4	A Yes.
5	certainly been involved with exactly what we're	5	Q And I take it your issue with this
6	talking about forever more. I mean, it's a	6	parameter is the five-fiber detection limit?
7	it's a serious point with me.	7	A Well, I can explain it maybe a little
8	MR. FROST:	8	bit better than I stated it.
9	Q But, again, your conclusion here isn't	9	If you have a background that is one
10	that it absolutely is or it absolutely is not.	10	and you find three fibers and, yet, to be
11	You say it may or may not be. That's your	11	quantifiable you need five, then why aren't the
12	that's your ultimate conclusion. That's correct?	12	three fibers reportable since they are over the
13	A Any	13	background?
14	MS. O'DELL:	14	That's that was the concept in what
15	Excuse me.	15	I wrote there. And it almost seems like the use
16	THE WITNESS:	16	of quantifiability is evading the issue of tiny
17	Yeah. Sure.	17	amounts of material that may be there but in a
18	MS. O'DELL:	18	small increment over the the background.
19	Object to form.	19	Q Have you calculated what you determine
20	A Any given example may or may not be in	20	to be the proper detection quantitifield
21	that.	21	quanti
22 23	MR. FROST: Q All right. Page 40. It's technically	22 23	A I know. Q You know the word I'm trying to say?
23 24	Q All right. Page 40. It's technically the second full paragraph there, third paragraph	24	
24	the second full paragraph there, third paragraph	24	A Right.
	Page 359		Page 361
1	on the page, bottom two sentences:	1	Q Have you run a calculation to detect
2	Five particles of the same asbestiform	2	what the appropriate level should be?
3	mineral were required for asbestos to be	3	MS. O'DELL:
4	considered quantifiable. Amounts less than this	4	Object to the form.
5	were considered background or below detection	5	A Well, like I said, I'm not a I'm not
6	limits. This suggests that something may [sic]	6	a statistician. But I have I have done some
7	be quantifiable if present, and this is not the	7	back-of-the-envelope, and and this is this
8	case.	8	is what I see.
9	Did I read that correctly?	9	If you take a hundred analyses, 95 of
10	MS. O'DELL:	10	them show nothing, five of them show one fiber,
11	"Must be"?	11	and those hundred analyses are of blanks, then
12	MR. FROST:	12	what are you gonna call your background if 95 of
13	Yes.	13	them show nothing? I would say that background
14	Q Must be quantifiable if present, and	14	is zero.
15	this is not the case.	15	If background is zero, then if you find
16	A Yeah.	16	four fibers, there's something in that sample,
17	Q Okay.	17	and yet it's not quantifiable. And, so, from the
18	A That that's that's right.	18	standpoint of that kind of math, yeah. I mean,
	Q All right. Are you an expert in	19	but anybody can do that.
19	1 ' TENT	20	Q Do you know who Walter McCrone is?
19 20	designing TEM test methodologies?	1	
19 20 21	A No.	21	A Sure.
19 20 21 22	A No. Q Have you ever designed test	22	Q And do you know who James Millette are?
19 20 21	A No.	1	

	Page 362		Page 364
1	Millette.	1	it down at the bottom, and I can't read it. It's
2	Q Okay.	2	minuscule.
3	A We know some Millettes but not him.	3	Q I believe it's 1990, by the the
4	Q All right. Would you agree with me	4	journal.
5	that Walter McCrone is generally considered to be	5	A Okay.
6	a leader in the field of TEM testing and	6	Q If you look to the first page on the
7	technologies?	7	journal, Volume 38, Fourth Quarter, 1990.
8	MS. O'DELL:	8	A Oh. Okay. I've got it. Sure.
9	Object to the form.	9	MS. O'DELL:
10	A He is certainly a leader in polarized	10	Yeah. And Kremer, K-R-E-M-E-R.
11	light microscopy. And I think that that, as	11	MR. FROST:
12	time went on, he became a real expert in TEM	12	Yeah, K-R-E-M-E-R. "Creamer," maybe.
13	analysis.	13	Q Turn to page 463. Under number 6,
14	MR. FROST:	14	Limit of Quantifiable Detection.
15	Q And because it seems like you know a	15	A Okay.
16	bunch of Millettes but not the James Millette,	16	Q Do you see here that they note "The
17	you can't tell me whether or not he's a leader	17	detection limit of five or more asbestiform
18	A Well, there's a Millette that was a	18	minerals of one variety in an analysis
19	mining engineer, mining geologist here in	19	constitutes a quantifiable level of detection"?
20	Alabama. And we were wondering if this Millette	20	A Right.
21	was related to him, and we found out he wasn't.	21	Q And you agree with me that that's the
22	Q I was gonna say, you know, I actually	22	same level of quantification in the J&J
23	know the answer.	23	specifications?
24	All right. I'd like to mark this	24	MS. O'DELL:
	Page 363		Page 365
			rage 303
1	article as 31.	1	Object to form.
1 2		1 2	
	article as 31.		Object to form.  A That's the number that's in in most
2	article as 31. THE COURT REPORTER: 30. It's gonna be 30. MR. FROST:	2 3 4	Object to form.  A That's the number that's in in most  I've seen four a couple of times, but I
2	article as 31.  THE COURT REPORTER:  30. It's gonna be 30.  MR. FROST:  30. Sorry. I was looking at your	2	Object to form.  A That's the number that's in in most  I've seen four a couple of times, but I think five is is the one I see the most.
2 3 4	article as 31.  THE COURT REPORTER:  30. It's gonna be 30.  MR. FROST:  30. Sorry. I was looking at your stickers to try to figure out.	2 3 4 5 6	Object to form.  A That's the number that's in in most  I've seen four a couple of times, but I think five is is the one I see the most.  MR. FROST:
2 3 4 5	article as 31.  THE COURT REPORTER:  30. It's gonna be 30.  MR. FROST:  30. Sorry. I was looking at your stickers to try to figure out.  (DEPOSITION EXHIBIT NUMBER 30	2 3 4 5 6 7	Object to form.  A That's the number that's in in most    I've seen four a couple of times, but I think five is is the one I see the most.  MR. FROST:  Q Okay. So you agree with me, anyway,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	article as 31.  THE COURT REPORTER:  30. It's gonna be 30.  MR. FROST:  30. Sorry. I was looking at your stickers to try to figure out.  (DEPOSITION EXHIBIT NUMBER 30 WAS MARKED FOR IDENTIFICATION.)  MR. FROST:  Q Have you ever heard the publication Microscope?  A I have. But I don't get it.  Q It's not one you subscribe to or read?  A No.  Q But and you at least do recognize that it is a peer-reviewed publication that's out there?  A It's out there.  Q And, looking at page 457, do you see that the name of this article is "A Standard TEM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Object to form.  A That's the number that's in in most I've seen four a couple of times, but I think five is is the one I see the most.  MR. FROST: Q Okay. So you agree with me, anyway, that the five, you know A Right. Q is in line with the limit of quantifiable detection published in the Microscope A Right. Q in fourth quarter of 1990? A Correct. Q Okay. Turn to page 41. A Okay. Q And I'm not gonna belabor the point because I think we talked about this pretty significantly when we were looking at the Chinese
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	article as 31.  THE COURT REPORTER:  30. It's gonna be 30.  MR. FROST:  30. Sorry. I was looking at your stickers to try to figure out.  (DEPOSITION EXHIBIT NUMBER 30 WAS MARKED FOR IDENTIFICATION.)  MR. FROST:  Q Have you ever heard the publication Microscope?  A I have. But I don't get it.  Q It's not one you subscribe to or read?  A No.  Q But and you at least do recognize that it is a peer-reviewed publication that's out there?  A It's out there.  Q And, looking at page 457, do you see that the name of this article is "A Standard TEM Procedure for Identification and Quantification of Asbestiform Minerals in Talc"? Then it lists	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Object to form.  A That's the number that's in in most I've seen four a couple of times, but I think five is is the one I see the most.  MR. FROST:  Q Okay. So you agree with me, anyway, that the five, you know  A Right.  Q is in line with the limit of quantifiable detection published in the Microscope  A Right.  Q in fourth quarter of 1990?  A Correct.  Q Okay. Turn to page 41.  A Okay.  Q And I'm not gonna belabor the point because I think we talked about this pretty significantly when we were looking at the Chinese document. But the second paragraph after Testing Methodologies, halfway through, you write that,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	article as 31.  THE COURT REPORTER:  30. It's gonna be 30.  MR. FROST:  30. Sorry. I was looking at your stickers to try to figure out.  (DEPOSITION EXHIBIT NUMBER 30 WAS MARKED FOR IDENTIFICATION.)  MR. FROST:  Q Have you ever heard the publication Microscope?  A I have. But I don't get it.  Q It's not one you subscribe to or read?  A No.  Q But and you at least do recognize that it is a peer-reviewed publication that's out there?  A It's out there.  Q And, looking at page 457, do you see that the name of this article is "A Standard TEM Procedure for Identification and Quantification	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Object to form.  A That's the number that's in in most I've seen four a couple of times, but I think five is is the one I see the most.  MR. FROST:  Q Okay. So you agree with me, anyway, that the five, you know  A Right.  Q is in line with the limit of quantifiable detection published in the Microscope  A Right.  Q in fourth quarter of 1990?  A Correct.  Q Okay. Turn to page 41.  A Okay.  Q And I'm not gonna belabor the point because I think we talked about this pretty significantly when we were looking at the Chinese document. But the second paragraph after Testing

92 (Pages 362 to 365)

	Page 366		Page 368
1	and it goes on.	1	Exhibit 31.
2	And at the very bottom of this, "This,	2	(DEPOSITION EXHIBIT NUMBER 31
3	of course, suggests an asbestos content of less	3	WAS MARKED FOR IDENTIFICATION.)
4	than .1 is acceptable, which is contrary to	4	MR. FROST:
5	Defendants' policy that its products be	5	Q We're gonna turn gears a little bit
6	asbestos-free."	6	here. Just to make it easier, I've put a
7	This is the same opinion you had as to	7	collection of documents together in one binder so
8	the Chinese test; right? Correct?	8	we don't have to worry about
9	A No. No. This is different. I I	9	A Oh, wonderful.
10	was surprised to even see that because it looked	10	<ul> <li>Q running everything around.</li> </ul>
11	like that suddenly we're gonna accept an asbestos	11	A Okay.
12	content up to .1. I mean, to me, it read very	12	Q So looking at page 13 of your report,
13	strangely. I wasn't sure that it was even	13	running through page 21, this is the chart we
14	written the way it was meant to sound.	14	talked about, you know, earlier
15	Q Oh. I see.	15	A Right, right.
16	A Yeah. I mean, if you if you go back	16	Q that has the various asbestos.
17	and look at the document, it almost sounds like	17	A Right.
18	they're saying, "Well, you know, we've done the	18	Q And you've looked at each of these
19	best we can, but if it's got .09 percent	19	documents, you testified, that relates to the
20	asbestos, well, that's below the .1 accepted	20	various entries on this chart?
21	standard, so"	21	A Yes.
22	You know, it seemed like a very	22	Q And, sitting here today, can you tell
23	peculiar statement.	23	me confidently that every one of the positive
24	Q I see. So the it's the notation	24	test results on this chart, you know, relates to
1	here is more the peculiarness of the statement	1	asbestos that made its way to a final bottle of
2	here is more the pecunamess of the statement	1 -	
	and the document	2	
	and the document  A Well if it's if it's accurate	2	talcum powder sold by Johnson & Johnson?
3	A Well, if it's if it's accurate,	2 3 4	talcum powder sold by Johnson & Johnson?  A No.
3 4	A Well, if it's if it's accurate, then then then it means that everything has	3 4	talcum powder sold by Johnson & Johnson?  A No. Q Okay.
3	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not	3	talcum powder sold by Johnson & Johnson?  A No. Q Okay. A I think that there may be a mistake or
3 4 5	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact,	3 4 5	talcum powder sold by Johnson & Johnson?  A No. Q Okay. A I think that there may be a mistake or two on here.
3 4 5 6	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact, we're gonna accept it up to .1.	3 4 5 6	talcum powder sold by Johnson & Johnson?  A No. Q Okay. A I think that there may be a mistake or two on here. Q Okay. And we're gonna walk through a
3 4 5 6 7	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact,	3 4 5 6 7	talcum powder sold by Johnson & Johnson?  A No. Q Okay. A I think that there may be a mistake or two on here.
3 4 5 6 7 8	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact, we're gonna accept it up to .1.  Q You'd agree with me this is what we covered before the test specification for	3 4 5 6 7 8	talcum powder sold by Johnson & Johnson?  A No. Q Okay. A I think that there may be a mistake or two on here. Q Okay. And we're gonna walk through a couple. A Okay.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact, we're gonna accept it up to .1.  Q You'd agree with me this is what we covered before the test specification for Johnson & Johnson's talc is utilizing the FDA J4-1, which is the XRD testing method, followed by PLM; correct? A Correct. MS. O'DELL: Object to the form. MR. FROST: Q And we've also seen that there's TEM testing requirement, too, in the J&J talc	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	talcum powder sold by Johnson & Johnson?  A No.  Q Okay.  A I think that there may be a mistake or two on here.  Q Okay. And we're gonna walk through a couple.  A Okay.  Q I'm not gonna call out every mistake because we'll be here you know, I'm not gonna look at every document and call out every mistake, but I do want to go through a few.  MS. O'DELL:  Object to the form.  MR. FROST:  Q So if we could look at what's been marked as Tab 1 in the binder of 31.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact, we're gonna accept it up to .1.  Q You'd agree with me this is what we covered before the test specification for Johnson & Johnson's talc is utilizing the FDA J4-1, which is the XRD testing method, followed by PLM; correct? A Correct. MS. O'DELL: Object to the form. MR. FROST: Q And we've also seen that there's TEM testing requirement, too, in the J&J talc specification; correct?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	talcum powder sold by Johnson & Johnson?  A No.  Q Okay.  A I think that there may be a mistake or two on here.  Q Okay. And we're gonna walk through a couple.  A Okay.  Q I'm not gonna call out every mistake because we'll be here you know, I'm not gonna look at every document and call out every mistake, but I do want to go through a few.  MS. O'DELL:  Object to the form.  MR. FROST:  Q So if we could look at what's been marked as Tab 1 in the binder of 31.  A Right.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact, we're gonna accept it up to .1.  Q You'd agree with me this is what we covered before the test specification for Johnson & Johnson's talc is utilizing the FDA J4-1, which is the XRD testing method, followed by PLM; correct?  A Correct.  MS. O'DELL:  Object to the form.  MR. FROST:  Q And we've also seen that there's TEM testing requirement, too, in the J&J talc specification; correct?  MS. O'DELL:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	talcum powder sold by Johnson & Johnson?  A No.  Q Okay.  A I think that there may be a mistake or two on here.  Q Okay. And we're gonna walk through a couple.  A Okay.  Q I'm not gonna call out every mistake because we'll be here you know, I'm not gonna look at every document and call out every mistake, but I do want to go through a few.  MS. O'DELL:  Object to the form.  MR. FROST:  Q So if we could look at what's been marked as Tab 1 in the binder of 31.  A Right.  Q This relates to an 8-2-22
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Well, if it's if it's accurate, then then then it means that everything has changed suddenly, that we're not we're not talc we're not asbestos-free and, in fact, we're gonna accept it up to .1.  Q You'd agree with me this is what we covered before the test specification for Johnson & Johnson's talc is utilizing the FDA J4-1, which is the XRD testing method, followed by PLM; correct?  A Correct.  MS. O'DELL:  Object to the form.  MR. FROST:  Q And we've also seen that there's TEM testing requirement, too, in the J&J talc specification; correct?  MS. O'DELL:  Object to the form.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	talcum powder sold by Johnson & Johnson?  A No. Q Okay. A I think that there may be a mistake or two on here. Q Okay. And we're gonna walk through a couple. A Okay. Q I'm not gonna call out every mistake because we'll be here you know, I'm not gonna look at every document and call out every mistake, but I do want to go through a few. MS. O'DELL: Object to the form. MR. FROST: Q So if we could look at what's been marked as Tab 1 in the binder of 31. A Right. Q This relates to an 8-2-22 Well, first, if you look at page 18 of

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	Page 370		Page 372
1	Q All right. Do you see that references	1	that samples TC-700 were actually talc mined at
2	document JNJMX68	2	San Andreas, California; correct?
3	A Yes.	3	A It would seem to say that, yeah.
4	Q - 13019?	4	Q Okay. All right. Looking back at your
5	A Right.	5	report, the next entry down, 4-29-1986, it's on
6	Q And that's talking about McCrone	6	page 18.
7	project number ME-1862 and specifically samples	7	A Okay. Tab 4?
8	WMI85-28 and WMI85-30?	8	Q Yeah. If you turn to Tab 4 here.
9	A Right.	9	You're ahead of me already.
10	Q Okay. If you'd turn to Tab 1 of the	10	A Okay.
11	exhibit blinder, you'll agree that this is the	11	Q But on the chart you identify J&J182 as
12	corresponding document, and we see WMI85-28	12	the source document. Do you agree with me that
13	A Yes.	13	Tab 4 is Exhibit J&J182?
14	Q and 85-30 listed?	14	A Yes.
15	A Yes.	15	Q And, again, on your chart, you just
16	Q Okay. And, from this document, you	16	have talc samples, but here the talc samples
17	can't tell where the samples WMI85-28 and	17	listed are WMI85-53, WMI85-55, and WMI85-57;
18	WMI85-30 were mined; correct?	18	correct?
19	MS. O'DELL:	19	A Right.
20	Object to the form.	20	Q Okay.
21	A I don't think I can.	21	All right. If you'll look back at Tab
22	MR. FROST:	22	3. I'm sorry. Turn to page 5. I apologize.
23	Q If you turn to	23	Third page.
24	A I think that they actually the	24	VIDEOGRAPHER:
1	Page 371 sample numbers relate to the mill, not the mine.	1	Page 373  Jack, did you put your mic on?
2	Q Well, we'll why don't we turn to Tab	2	MR. FROST:
3	2. This is a document Bates numbered JNJ65646.		
-		1 .5	Oh did it fall off? No. I took it
4		3 4	Oh, did it fall off? No. I took it
4 5	And I'll turn your attention to the second page.	4	off.
5	And I'll turn your attention to the second page.  A Okay.	4 5	off. Q So look at the page that ends 890.
5 6	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and	4 5 6	off. Q So look at the page that ends 890. A Okay.
5	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7	4 5	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see
5 6 7 8	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I	4 5 6 7 8	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700?
5 6 7 8 9	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.	4 5 6 7 8 9	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right.
5 6 7 8 9	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?	4 5 6 7 8	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700.
5 6 7 8 9 10 11	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.	4 5 6 7 8 9	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay.
5 6 7 8 9	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3,	4 5 6 7 8 9 10	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade
5 6 7 8 9 10 11	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys	4 5 6 7 8 9 10 11	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700.
5 6 7 8 9 10 11 12	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3,	4 5 6 7 8 9 10 11 12 13	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay.
5 6 7 8 9 10 11 12 13 14	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of	4 5 6 7 8 9 10 11 12 13 14	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700.
5 6 7 8 9 10 11 12 13 14	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.	4 5 6 7 8 9 10 11 12 13 14	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. Q Okay. And, you know, as we saw last
5 6 7 8 9 10 11 12 13 14 15	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.  A Okay.	4 5 6 7 8 9 10 11 12 13 14 15	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. And, you know, as we saw last time, the Grade TC-700 comes from San Andreas,
5 6 7 8 9 10 11 12 13 14 15 16 17	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.  A Okay.  Q Under Production Location, the second	4 5 6 7 8 9 10 11 12 13 14 15 16	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. And, you know, as we saw last time, the Grade TC-700 comes from San Andreas, California; correct?
5 6 7 8 9 10 11 12 13 14 15 16 17	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.  A Okay.  Q Under Production Location, the second one, San Andreas, California.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. And, you know, as we saw last time, the Grade TC-700 comes from San Andreas, California; correct? A Yeah. I'd have to go back and look,
5 6 7 8 9 10 11 12 13 14 15 16 17 18	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.  A Okay.  Q Under Production Location, the second one, San Andreas, California.  A Correct.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. And, you know, as we saw last time, the Grade TC-700 comes from San Andreas, California; correct? A Yeah. I'd have to go back and look, but I I think it is.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.  A Okay.  Q Under Production Location, the second one, San Andreas, California.  A Correct.  Q And then if you go over, it says	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. And, you know, as we saw last time, the Grade TC-700 comes from San Andreas, California; correct? A Yeah. I'd have to go back and look, but I I think it is. Q Okay. You can look if you want, but I
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And I'll turn your attention to the second page.  A Okay.  Q Then we see here it says WMI85-28 and it describes as grade TC-7  A Right. I'm aware of those two. I spotted them.  Q Okay. The grade TC-700?  A Right. I see that.  Q So if we turn to the tab marked 3, which is a document that starts with Bates Imerys 013723, and if you can turn to the fourth page of that. It's the one that's 13725.  A Okay.  Q Under Production Location, the second one, San Andreas, California.  A Correct.  Q And then if you go over, it says  "Grade," and then it has "TC-700, light and	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	off. Q So look at the page that ends 890. A Okay. Q And if you'll look up there, we see WMI85-53. And, again, that's Grade TC-700? A Right. Q 85-55, also Grade TC-700. A Okay. Q And then the 85-57 is also grade TC-700. A Okay. Q Okay. And, you know, as we saw last time, the Grade TC-700 comes from San Andreas, California; correct? A Yeah. I'd have to go back and look, but I - I think it is. Q Okay. You can look if you want, but I take it you believe me on that one?

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	Page 374		Page 376
1	entry on the on the chart.	1	that D-GI is an industrial product? It's not a
2	A I see it.	2	cosmetic talcum powder?
3	Q Okay. And it accounts for J&J-74 as	3	A Right.
4	the source document.	4	Q All right. If you turn to page 15.
5	A Hang on. What was the date again?	5	Oh, sorry. 14. About halfway down 14, there's a
6	Q 10-10-1974. It's about the middle of	6	document or there's an entry on the chart,
7	page 17.	7	7-7-1971. And the what was tested column shows
8	A Right. Right. I'm looking at the	8	that it was talc product 344-L?
9	other one.	9	A Right.
10	Huh. Page 17?	10	Q Okay. If you look at Tab 8, there's a
11	Q Yeah. Here. I've highlighted it on	11	document JNJAZ55-6089 that appears to be you
12	this one. I'll just let you look. Looks like	12	know, it's the July 7, '71, letter that talks
13	the second entry on page 17.	13	about 344-L testing. Do you agree?
14	A Okay. I've got it. Sure.	14	MS. O'DELL:
15	Q And the source document for that entry	15	Jack, can you give us a moment?
16	is J&J-74.	16	MR. FROST:
17	A Right.	17	Sure.
18	Q Okay. If you look at Tab 8, do you	18	MS. O'DELL:
19	agree with me that that's the source document?	19	Because we have it as a different
20	MS. O'DELL:	20	MR. FROST:
21	Tab 8?	21	Yeah. I was gonna say, you have the
22	MR. FROST:	22	that's fine. If you can find the one you have,
23	Tab 8, yes. Oh, sorry. Tab 6. Looked	23	that's great.
24	like an 8 as I was glancing at it.	24	MS. O'DELL:
			Page 377
1	Q Tab 6.	1	Yeah. Just and it may be the same
2	A Okay.	2	document, but we identified it differently, so
3	Q And if you look at the highlighted	3	just give us just a minute
4	portion of that document, which is highlighted on	4	MR. FROST:
5	the original, it notes that the sample is DG	5	Yeah. That's fine.
6	D-GI; correct?	6	MS. O'DELL:
7	A Yes.	7	to check the Bates number.
8	Q In which they found the fibrous	8	MR. FROST:
9	asbestiform materials.	9	Of course, the sticker's over the Bates
10	If you look at Tab 7, this is a	10	number; right?
	J		
11	document that's Bates stamped JNJMX682659.	11	-
11 12	document that's Bates stamped JNJMX682659.  A Okay.	11 12	MS. O'DELL:
	A Okay.		MS. O'DELL: Never helpful.
12	A Okay. Q Third paragraph down, it states, "The	12	MS. O'DELL:
12 13	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals	12 13	MS. O'DELL:  Never helpful.  I believe that to be the same one.  MR. FROST:
12 13 14	A Okay. Q Third paragraph down, it states, "The	12 13 14	MS. O'DELL:  Never helpful.  I believe that to be the same one.
12 13 14 15	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in	12 13 14 15	MS. O'DELL:  Never helpful.  I believe that to be the same one.  MR. FROST:  Okay.
12 13 14 15 16	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in parentheses.	12 13 14 15 16	MS. O'DELL:  Never helpful.  I believe that to be the same one.  MR. FROST:  Okay.  MS. O'DELL:
12 13 14 15 16 17	A Okay. Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in parentheses. A Right.	12 13 14 15 16 17	MS. O'DELL: Never helpful. I believe that to be the same one. MR. FROST: Okay. MS. O'DELL: Thank you. MR. FROST:
12 13 14 15 16 17	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in parentheses.  A Right.  Q Okay. And then if you skip down	12 13 14 15 16 17 18	MS. O'DELL: Never helpful. I believe that to be the same one. MR. FROST: Okay. MS. O'DELL: Thank you. MR. FROST:
12 13 14 15 16 17 18	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in parentheses.  A Right.  Q Okay. And then if you skip down  A Yeah. I, incidentally, I picked this	12 13 14 15 16 17 18 19	MS. O'DELL:  Never helpful.  I believe that to be the same one.  MR. FROST: Okay.  MS. O'DELL: Thank you.  MR. FROST: Q Okay. And this is a report from
12 13 14 15 16 17 18 19 20	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in parentheses.  A Right.  Q Okay. And then if you skip down  A Yeah. I, incidentally, I picked this one up.	12 13 14 15 16 17 18 19 20	MS. O'DELL: Never helpful. I believe that to be the same one.  MR. FROST: Okay. MS. O'DELL: Thank you. MR. FROST: Q Okay. And this is a report from Colorado Schools of Mines regarding this sample
12 13 14 15 16 17 18 19 20 21	A Okay.  Q Third paragraph down, it states, "The samples represented both the industrial minerals produced at the Gassetts," and it says "GI" in parentheses.  A Right.  Q Okay. And then if you skip down  A Yeah. I, incidentally, I picked this one up.  Q This is the one you picked up?	12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Never helpful. I believe that to be the same one.  MR. FROST: Okay. MS. O'DELL: Thank you. MR. FROST: Q Okay. And this is a report from Colorado Schools of Mines regarding this sample 344-L?

95 (Pages 374 to 377)

	Page 378		Page 380
1	of these same samples?	1 (	contamination from the standard asbestos
2	A No.	2 9	samples."
3	Q Turn to Tab 9.	3	A Right.
4	A I say I'm not. I I don't		Q So, based on this, obviously, you know,
5	remember I don't remember seeing it. If it		we can't determine whether or not the sample
6	if it contradicted this one, then I would have		344-L on the chart, you know, is an actual
7	likely removed it from the table. So		finding of asbestos in the talcum powder. Would
8	Q Okay.		you would you agree with that statement?
9	A I either don't remember it or didn't	9 ]	MS. O'DELL:
10	see it.	10	Object to form.
11	Q Okay. That's fair.		A Hang on. I'm reading that third
12	Go on and turn to Tab 9. It's a	_	paragraph.
13	document Bates-stamped JNJAZ55-3828.	13 I	MR. FROST:
14	A Where was that in the table?	14 (	Q Sure.
15	Q This particular document?	15	A Yeah.
16	A Yeah. Are you referring to an entry in	16 (	Q Okay.
17	the table?	17	A Okay.
18	Q It's not. I'm gonna this document		Page 15, the second notation, 9-6-1972,
19	refers this is the retest that I was talking	19 J	J&J-31.
20	about from Colorado School of Mines.	20	A Right.
21	A Oh, okay. Sure.	21 (	Q And the source document is noted as
22	MS. O'DELL:	22 ]	J&J yeah, J&J-31.
23	And if you haven't seen the document,	23	A Right.
24	take your time	24 (	Q Turn to Tab 12. You'll agree with me
_	Page 379		Page 381
1	MR. FROST:		that appears to be the source document, that
2	MR. FROST: Q I was gonna say take your time to read	2 ]	that appears to be the source document, that J&J-31?
2	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short.	2 J 3 A	that appears to be the source document, that J&J-31? A Right.
2 3 4	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah.	2 J 3 4	that appears to be the source document, that J&J-31?  A Right.  Q If you turn to page 4 of 7.
2 3 4 5	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah.  Q Actually, very short.	2 J 3 4 4 (	that appears to be the source document, that J&J-31?  A Right. Q If you turn to page 4 of 7. A Okay.
2 3 4 5 6	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits	2 J 3 4 4 ( 5 4	that appears to be the source document, that J&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have
2 3 4 5 6 7	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability."	2 J 3 4 6 5 4 6 6 7 6	that appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137,
2 3 4 5 6 7 8	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay.	2 3 3 4 5 6 7 6 8	that appears to be the source document, that J&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?
2 3 4 5 6 7 8 9	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of	2 3 3 4 6 5 6 6 7 8 8 3	that appears to be the source document, that J&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again.
2 3 4 5 6 7 8 9	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1?	2 3 3 4 0 5 6 0 7 8 9 4	that appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134
2 3 4 5 6 7 8 9 10	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading	2 3 4 6 6 6 7 8 9 10 11 4	chat appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?  A Read those numbers again.  Q Sure. 133, 134  A Okay.
2 3 4 5 6 7 8 9 10 11 12	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading Q The numbered paragraph 1?	2 3 4 6 6 6 7 8 10 10 11 12 6	that appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?  A Read those numbers again.  Q Sure. 133, 134  A Okay.  Q then 137 and 138 and 84.
2 3 4 5 6 7 8 9 10 11 12 13	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading Q The numbered paragraph 1? A I'm reading the last sentence of the	2 3 4 6 6 6 7 8 9 10 11 12 6 13 13 14	that appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?  A Read those numbers again.  Q Sure. 133, 134  A Okay.  Q then 137 and 138 and 84.  A Right.
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading Q The numbered paragraph 1? A I'm reading the last sentence of the second full paragraph.	2 3 4 6 6 6 7 8 9 10 11 12 13 14 6 6	that appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?  A Read those numbers again.  Q Sure. 133, 134  A Okay.  Q then 137 and 138 and 84.  A Right.  Q Turn back or turn to Tab 11, which
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading Q The numbered paragraph 1? A I'm reading the last sentence of the second full paragraph. Q Yeah.	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 ii	that appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah.  Q Actually, very short.  A There they go again, "within our limits of detectability."  Right. Okay.  Q You're reading from the middle of paragraph 1?  A I'm reading  Q The numbered paragraph 1?  A I'm reading the last sentence of the second full paragraph.  Q Yeah.  So, before that, it states "Subsequent	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 ii 16 11	chat appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. FROST: Q I was gonna say take your time to read it. I believe it's pretty short. A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading Q The numbered paragraph 1? A I'm reading the last sentence of the second full paragraph. Q Yeah. So, before that, it states "Subsequent x-ray work"	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 ii 16 11 17 11	chat appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah. Q Actually, very short.  A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1?  A I'm reading Q The numbered paragraph 1?  A I'm reading the last sentence of the second full paragraph. Q Yeah. So, before that, it states "Subsequent x-ray work" A Right.	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 ii 16 17 18 ]	that appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by Dr. Lewin; correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah.  Q Actually, very short.  A There they go again, "within our limits of detectability."  Right. Okay.  Q You're reading from the middle of paragraph 1?  A I'm reading  Q The numbered paragraph 1?  A I'm reading the last sentence of the second full paragraph.  Q Yeah.  So, before that, it states "Subsequent x-ray work"  A Right.  Q "on the 6-month product samples on	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19	that appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?  A Read those numbers again.  Q Sure. 133, 134  A Okay.  Q then 137 and 138 and 84.  A Right.  Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by Dr. Lewin; correct?  A Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah.  Q Actually, very short.  A There they go again, "within our limits of detectability."  Right. Okay.  Q You're reading from the middle of paragraph 1?  A I'm reading  Q The numbered paragraph 1?  A I'm reading the last sentence of the second full paragraph.  Q Yeah.  So, before that, it states "Subsequent x-ray work"  A Right.  Q "on the 6-month product samples on the 344-L product sample shows no definite	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 ii 16 17 18 19 20 6 6	that appears to be the source document, that I&J-31?  A Right.  Q If you turn to page 4 of 7.  A Okay.  Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84?  A Read those numbers again.  Q Sure. 133, 134  A Okay.  Q then 137 and 138 and 84.  A Right.  Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by Dr. Lewin; correct?  A Correct.  Q If you turn to one, two, three
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah.  Q Actually, very short.  A There they go again, "within our limits of detectability."  Right. Okay.  Q You're reading from the middle of paragraph 1?  A I'm reading  Q The numbered paragraph 1?  A I'm reading the last sentence of the second full paragraph.  Q Yeah.  So, before that, it states "Subsequent x-ray work"  A Right.  Q "on the 6-month product samples on the 344-L product sample shows no definite indications of any asbestos-type minerals within	2 3 4 6 6 6 7 8 9 4 9 10 11 12 13 14 15 16 17 18 19 20 21 15	that appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by Dr. Lewin; correct? A Correct. Q If you turn to one, two, three the fourth page. So if you see if you look at
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah. Q Actually, very short. A There they go again, "within our limits of detectability." Right. Okay. Q You're reading from the middle of paragraph 1? A I'm reading Q The numbered paragraph 1? A I'm reading the last sentence of the second full paragraph. Q Yeah. So, before that, it states "Subsequent x-ray work" A Right. Q "on the 6-month product samples on the 344-L product sample shows no definite indications of any asbestos-type minerals within our limits of detectability."	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 12 22 8	that appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by Dr. Lewin; correct? A Correct. Q If you turn to one, two, three the fourth page. So if you see if you look at 84 under chrysotile, there's a question mark.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. FROST:  Q I was gonna say take your time to read it. I believe it's pretty short.  A Yeah.  Q Actually, very short.  A There they go again, "within our limits of detectability."  Right. Okay.  Q You're reading from the middle of paragraph 1?  A I'm reading  Q The numbered paragraph 1?  A I'm reading the last sentence of the second full paragraph.  Q Yeah.  So, before that, it states "Subsequent x-ray work"  A Right.  Q "on the 6-month product samples on the 344-L product sample shows no definite indications of any asbestos-type minerals within	2 3 4 6 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 12 22 23 23 24	that appears to be the source document, that I&J-31?  A Right. Q If you turn to page 4 of 7. A Okay. Q So the sample numbers that have chrysotile findings you agree are 133, 134, 137, 138, and then, if you turn to the next page, 84? A Read those numbers again. Q Sure. 133, 134 A Okay. Q then 137 and 138 and 84. A Right. Q Turn back or turn to Tab 11, which is a document dated January 7th, 1976. You can read the letter. But, effectively, this is a retest of some of the various samples by Dr. Lewin; correct? A Correct. Q If you turn to one, two, three the fourth page. So if you see if you look at

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	Page 382		Page 384
1	A Right. I see that. Uh-huh.	1	me before, you know, sitting here today, you
2	Q So, again, just like the other	2	can't tell me that every single one of these
3	document, based on the retesting, you know, we	3	you know, any one of the ones that are left
4	can't say one way or the other whether there was	4	would, you know, also be indicative of something
5	actually asbestos in that sample; correct?	5	that actually ended up in talcum powder; correct?
6	MS. O'DELL:	6	MS. O'DELL:
7	Object to the form.	7	Object to the form.
8	A Correct.	8	A Well, it depends on what's being
9	MR. FROST:	9	analyzed. If some of it is the finished product,
10	Q Now, I know we've said this lots of	10	then it's the finished product.
11	times, and I apologize, but not a doctor, not a	11	MR. FROST:
12	toxicologist; correct?	12	Q Okay.
13	A Correct.	13	A If not, then, you know, it depends on
14	Q And, because of that, you can't testify	14	where the sample was collected. If it was
15	to a reasonable degree of scientific certainty	15	collected at the mine, then that's one thing. If
16	that any individual container of talcum powder	16	it was collected coming out of the flotation
17	has sufficient asbestos in it to cause ovarian	17	circuit, well, you know, maybe it did get
18	cancer; correct?	18	probably it got in.
19	A Correct.	19	Q Okay.
20	MS. O'DELL:	20	A I'm not in the business of throwing
21	Object to the form.	21	throwing good product away.
22	MR. FROST:	22	Q And you also you can't tell me,
23	Q Okay. And same thing. You can't	23	sitting here, that there aren't other documents
24	testify that any particular container of talcum	24	that may call into question or contradict some of
	Page 383		Page 385
1	powder has sufficient asbestos in it to cause	1	the other testing results here; correct?
2	mesothelioma; correct?	2	MS. O'DELL:
3	MS. O'DELL:	3	Object.
4	Object to the form.	4	MR. FROST:
5	A That's correct. You know, you the	5	Q The the testing results listed here
6	term "sufficient" is is an interesting one in	6	were based on, you know, your best efforts and
7	your question. I don't know that anybody on	7	reviewing the documents you had available at the
8	earth knows that answer.	8	time; correct?
9	MR. FROST:	9	MS. O'DELL:
10	Q Okay.	10	Objection. Object to the form.
11	A Can can say that.	11	A Yeah. The table is my best effort at
12	Q But that's certainly not an area	12	putting together information from the documents
13	that it's not an area you've studied	13	that I had. That that statement's accurate.
14	A Right.	14	MR. FROST:
15	Q or are qualified in.	15	Q Okay. Now, have you reviewed
16	And, again, I think I've now pointed	16	Dr. Longo's reports that have been issued in this
17	out five, I believe	17	case?
18	A Yes.	18	A I'm not sure I've seen all of them.
19	Q examples of, you know, sort of	19	Q You've reviewed some of the Longo
20	I'll call them inaccuracies, you know, but	20	reports, at least?
21	A Glitches.	21	A Yes.
22	Q notations on the chart, you know,	22	Q Okay. And are you are you relying
23	that we can't say whether or not are actually	23	on the Longo test results as part of the basis
		1	
24	asbestos in the product. And I believe you told	24	for your opinions in these cases?

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	Page 386		Page 388
1	A Not really. I mentioned him a couple	1	subject.
2	of times. But I got I got his report, his	2	VIDEOGRAPHER:
3	I mean, the great big huge report just a few	3	Going off the record. The time is 4:13
4	days ago.	4	p.m.
5	Q Oh, okay. So it's	5	(OFF THE RECORD.)
6	A I'd seen the introductory materials and	6	VIDEOGRAPHER:
7	some of the earlier reports he had.	7	We're back on the record. The time is
8	Q But you're not specifically relying on	8	4:40 p.m.
9	Longo's testing and his testing methodologies and	9	MR. FROST:
10	things like that for the basis of your opinions	10	Q Okay. I believe we were turning to
11	in this case?	11	page 22 of your report. No. Page 23.
12	MS. O'DELL:	12	Did your report get lost somewhere?
13	Object to the form.	13	A Yeah. I'm looking for yours with the
14	A It is certainly part of the big	14	tabs on it.
15	picture.	15	Q Oh. That's the binder on the bottom.
16	MR. FROST:	16	MS. O'DELL:
17	Q You're not here to offer any opinions	17	Do you need it?
18	that his testing methodologies were inadequate or	18	MR. FROST:
19	that, you know, his preparation procedures and	19	We're gonna turn to it next, so it's a
20	things like that, they that's that's not	20	good thing you have it.
21	part of the opinions you're offering in this	21	Q Okay. So you see the 5-25-1972
22	case, are they?	22	notation under the chart regarding fibrous talc?
23	A No.	23	And it notes the source document is JNJ238826,
24		24	
24	Q Okay.	24	248023?
	Page 387		Page 389
1		1	
1 2	A I did read I did read his methods.	1 2	A Right.
2	A I did read I did read his methods.  They seem to be up to snuff.	2	
2	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example,	2 3	A Right. Q Turn to Tab 13.
2 3 4	A I did read I did read his methods.  They seem to be up to snuff.	2	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972?
2 3 4 5	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No.	2 3 4 5	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST:
2 3 4 5 6	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No.  Q or you didn't try to verify any of	2 3 4 5 6	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report.
2 3 4 5 6 7	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No.  Q or you didn't try to verify any of his test results?	2 3 4 5 6 7	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. O'DELL:
2 3 4 5 6 7 8	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns  A No.  Q or you didn't try to verify any of his test results?  A No. No, no, no. I'm not sure how I	2 3 4 5 6 7 8	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. O'DELL: Okay. So you're not talking about the
2 3 4 5 6 7 8	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns  A No.  Q or you didn't try to verify any of his test results?  A No. No, no, no. I'm not sure how I would have.	2 3 4 5 6 7 8	A Right. Q Turn to Tab 13. MS. ODELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. ODELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous
2 3 4 5 6 7 8 9	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No.  Q or you didn't try to verify any of his test results?  A No. No, no, no. I'm not sure how I would have.  Q That's that's not your area of	2 3 4 5 6 7 8 9	A Right. Q Turn to Tab 13. MS. ODELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. ODELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table.
2 3 4 5 6 7 8 9 10	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No.  Q or you didn't try to verify any of his test results?  A No. No, no, no. I'm not sure how I would have.  Q That's that's not your area of expertise; correct?	2 3 4 5 6 7 8 9 10	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table. MR. FROST:
2 3 4 5 6 7 8 9 10 11	A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No.  Q or you didn't try to verify any of his test results?  A No. No, no, no. I'm not sure how I would have.  Q That's that's not your area of expertise; correct?  A Nor do I have the equipment.	2 3 4 5 6 7 8 9 10 11	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table. MR. FROST: Yeah, the fibrous talc table.
2 3 4 5 6 7 8 9 10 11 12	A I did read I did read his methods. They seem to be up to snuff. Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No. Q or you didn't try to verify any of his test results? A No. No, no, no. I'm not sure how I would have. Q That's that's not your area of expertise; correct? A Nor do I have the equipment. Q Well, that's a fair point, too.	2 3 4 5 6 7 8 9 10 11 12 13	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table. MR. FROST: Yeah, the fibrous talc table. MS. O'DELL:
2 3 4 5 6 7 8 9 10 11 12 13	A I did read I did read his methods. They seem to be up to snuff. Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No. Q or you didn't try to verify any of his test results? A No. No, no, no. I'm not sure how I would have. Q That's that's not your area of expertise; correct? A Nor do I have the equipment. Q Well, that's a fair point, too. A Yeah.	2 3 4 5 6 7 8 9 10 11 12 13	A Right. Q Turn to Tab 13. MS. O'DELL: You said 5-25-1972? MR. FROST: Yes. It's on page 23 of his report. MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table. MR. FROST: Yeah, the fibrous talc table. MS. O'DELL: Okay. All right.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A I did read I did read his methods. They seem to be up to snuff. Q Okay. You didn't do any, for example, calculations of BSAED dispersion patterns A No. Q or you didn't try to verify any of his test results? A No. No, no, no. I'm not sure how I would have. Q That's that's not your area of expertise; correct? A Nor do I have the equipment. Q Well, that's a fair point, too. A Yeah. Q Turning to page 20	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A Right. Q Turn to Tab 13.  MS. ODELL: You said 5-25-1972?  MR. FROST: Yes. It's on page 23 of his report.  MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table.  MR. FROST: Yeah, the fibrous talc table.  MS. O'DELL: Okay. All right.  MR. FROST:
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98 (Pages 386 to 389)

	Page 390		Page 392
1	Are both documents behind the same tab?	1	Drs. Gamble and Gibbs
2	Q They are. There's a blue page	2	A Correct.
3	separating the two.	3	Q entitled "An evaluation of the risks
4	A Oh, okay. Thank you. Gotcha. Okay.	4	of lung cancer and mesothelioma from exposure to
5	Q And you'll also agree with me that	5	amphibole cleavage fragments"?
6	they're talking the FD-14 seems to have been	6	A Correct.
7	tested by a Dr. W. Smith at Fairleigh Dickinson	7	Q You can feel free to read the paper,
8	University?	8	but I'm gonna direct your attention to page 23 of
9	A Correct.	9	33.
10	Q Okay. Turn to	10	A Oh, great. Okay. All right.
11	A Wait a minute.	11	Q Okay. Second column, looks like the
12	MS. O'DELL:	12	second paragraph down, the paragraph starts,
13	Dr. Smith? Is that what you were	13	"Samples used in experimental studies."
14	MR. FROST:	14	A Page 23 of 33?
15	Q Dr. W. Smith, Fairleigh Dickinson	15	Q Yep. On the second column.
16	University.	16	A Second column being the right-hand
17	Both of these are Johnson & Johnson	17	column?
18	documents, but they're talking about the	18	Q Yeah. Then it starts right there. It
19	Dr. W. Smith testing of the tremolite talc,	19	says "Samples."
20	FD-14.	20	A Okay.
21	Do you agree with that statement?	21	Q About halfway down in that paragraph
22	A Okay. I was looking for Smith's name.	22	A Right.
23	I remember seeing Rolle and Goudie and	23	Q the sentence reads, "On the other
24	Q If you look at the first document, the	24	hand, there are several studies of tremolitic
			Page 393
1		1	
1 2	238826 A Bi-la	1 2	talc samples from the Gouverneur mine in New York State." And the second one listed is FD-14 used
3	A Right.	3	
4	Q at the top, it says, "Subject, Characterization of Tremolite Talc, FD-14,		by Dr. Smith, 1979. Is that correct?
-		1 1	MC O'DELL:
5		4 5	MS. O'DELL: That's what it states
5	Dr. W. Smith	5	That's what it states.
6	Dr. W. Smith A Oh. Oh, yeah.	5 6	That's what it states. MR. FROST:
6 7	Dr. W. Smith A Oh. Oh, yeah. Q Fairleigh Dickinson University.	5 6 7	That's what it states.  MR. FROST: Q Or did I did I read that correctly?
6 7 8	Dr. W. Smith A Oh. Oh, yeah. Q Fairleigh Dickinson University. A Right. I've got him. Yep. Yep.	5 6 7 8	That's what it states.  MR. FROST: Q Or did I did I read that correctly? A I think you did.
6 7 8 9	Dr. W. Smith A Oh. Oh, yeah. Q Fairleigh Dickinson University. A Right. I've got him. Yep. Yep. Yep. Sure.	5 6 7 8 9	That's what it states.  MR. FROST: Q Or did I did I read that correctly? A I think you did. Q Okay. And, by this, it indicates that
6 7 8 9 10	Dr. W. Smith A Oh. Oh, yeah. Q Fairleigh Dickinson University. A Right. I've got him. Yep. Yep. Yep. Sure. Q All right. Turn to Tab 14.	5 6 7 8 9	That's what it states.  MR. FROST:  Q Or did I did I read that correctly?  A I think you did.  Q Okay. And, by this, it indicates that the tremolitic talc tested by Dr. Smith that's
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Dr. W. Smith A Oh. Oh, yeah. Q Fairleigh Dickinson University. A Right. I've got him. Yep. Yep. Yep. Sure. Q All right. Turn to Tab 14. A Okay. Q It's a letter dated March 15th, 1972, Bates stamped JNJ346879. A Okay. Q And, again, it's from you know, second sentence down says, "As you may remember from my brief conversation with you, we are presently analyzing a talc used by Dr. W. E. Smith in his animal testing. Could you please have the EM work done on this talc labeled FD-14?"	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	That's what it states.  MR. FROST:  Q Or did I did I read that correctly?  A I think you did.  Q Okay. And, by this, it indicates that the tremolitic talc tested by Dr. Smith that's FD-14 is actually a Gouverneur mine sample; correct?  MS. O'DELL: Object to the form.  A Unless there's a peculiar duplication of numbers.  MR. FROST: Q It certainly seems to indicate that; correct?  A It would suggest that.

99 (Pages 390 to 393)

	Page 394		Page 396
1	Do you see where I am?	1	still fibrous talc.
2	A Yeah, I've got it.	2	Q Okay. But that's different than the
3	Q Okay. And if you turn to Tab 16 in the	3	tale that was sourced for Johnson & Johnson
4	binder that's Exhibit 31.	4	talcum powder; correct?
5	A Okay.	5	A It may
6	Q You agree with me that this is the	6	MS. O'DELL:
7	source document for the entry on the chart;	7	Object to the form.
8	correct?	8	A It may or may not be. I mean, if
9	A I believe it's the right number.	9	they're coming from
10	Q Okay. Do you see up in the upper	10	•
11	left-hand corner it says "W. Minerals, Ludlow		They list the mines, and they're the
12	36"?	11	same mines that were producing the cosmetic talc,
13	A Yes.	12	and there's no reason to think that that even
14	Q Okay. And if you turn to Tab 17, which	13	though we've got lots of analyses that show
15		14	fibrous talc in cosmetic talc that there
16	is a document Bates-stamped Imerys 013723.  A Uh-huh.	15	shouldn't be any fibrous talc in industrial talc.
		16	It
17	Q And if you turn to the second page,	17	MR. FROST:
18	fourth entry down, it says "Ludlow, Vermont."	18	Q Okay. But, based on this, this
19	A Got it.	19	certainly isn't evidence that there was fibrous
20	Q Okay. And it notes Grade 36 here.	20	talc that ended up in a bottle of Johnson's in
21	A I see Grade 36.	21	Johnson & Johnson's talcum powder; correct?
22	Q Okay. And if you look down	22	MS. O'DELL:
23	So the production location of this is	23	Object to the form.
24	Ludlow, Vermont; correct? And then it says	24	A That way, no.
	Page 395		Page 397
1	"Grade 36."	1	MR. FROST:
2	A Correct.	2	Okay. And, again, you know, we've
3	Q Okay. And if you look on the next	3	already covered this before, but you can't tell
4	page, that is different than the production	4	me to a reasonable degree of scientific certainty
5	location being Windsor, Vermont right?	5 6	that any individual container of talcum powder
6	which has the Grade 65 talc, which we know is the	6	may have contained a sufficient number of or a
7	cosmetic talc?	I -	0.71
	cosmetic tale:	7	sufficient amount of fibrous talc to cause any
8	A Okay.	8	human disease; correct?
8 9		8 9	
	A Okay.	8	human disease; correct?
9	A Okay. Q And we know that the cosmetic talc came	9	human disease; correct? MS. O'DELL:
9 10	A Okay.  Q And we know that the cosmetic talc came from the Windsor, Vermont, mill; correct?	8 9 10	human disease; correct?  MS. O'DELL:  Object to the form.
9 10 11	A Okay. Q And we know that the cosmetic talc came from the Windsor, Vermont, mill; correct? A It should have, yes. Q All right. And that's separate,	8 9 10 11	human disease; correct?  MS. O'DELL:  Object to the form.  A I've never seen a paper that said how
9 10 11 12	<ul> <li>A Okay.</li> <li>Q And we know that the cosmetic talc came from the Windsor, Vermont, mill; correct?</li> <li>A It should have, yes.</li> <li>Q All right. And that's separate, according to this document, from the Ludlow,</li> </ul>	8 9 10 11 12	human disease; correct?  MS. O'DELL:  Object to the form.  A I've never seen a paper that said how much you needed to cause any kind of a problem.  MR. FROST:
9 10 11 12 13	A Okay. Q And we know that the cosmetic talc came from the Windsor, Vermont, mill; correct? A It should have, yes. Q All right. And that's separate,	8 9 10 11 12 13	human disease; correct?  MS. O'DELL:  Object to the form.  A I've never seen a paper that said how much you needed to cause any kind of a problem.  MR. FROST:  Q Okay. And that's outside of your area
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Okay. Q And we know that the cosmetic talc came from the Windsor, Vermont, mill; correct? A It should have, yes. Q All right. And that's separate, according to this document, from the Ludlow, Vermont, mill; correct? MS. O'DELL: Object to the form. A Yes. MR. FROST: Q Okay. A I think that the point of all this is that the – the mill feed at Ludlow had fibrous talc in it.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	human disease; correct?  MS. O'DELL:  Object to the form.  A I've never seen a paper that said how much you needed to cause any kind of a problem.  MR. FROST:  Q Okay. And that's outside of your area of expertise, anyway.  A Correct.  Q Okay. Now, again, you know, you've also noted on here, we've seen at various points nickel, chromium, cobalt and arsenic, I believe, as well. And you'd agree with me that not all of the entries on the charts for these various different chemicals are, in fact, finished talcum
9 10 11 12 13 14 15 16 17 18 19 20 21	A Okay. Q And we know that the cosmetic talc came from the Windsor, Vermont, mill; correct? A It should have, yes. Q All right. And that's separate, according to this document, from the Ludlow, Vermont, mill; correct? MS. O'DELL: Object to the form. A Yes. MR. FROST: Q Okay. A I think that the point of all this is that the — the mill feed at Ludlow had fibrous	8 9 10 11 12 13 14 15 16 17 18 19 20 21	human disease; correct?  MS. O'DELL:  Object to the form.  A I've never seen a paper that said how much you needed to cause any kind of a problem.  MR. FROST:  Q Okay. And that's outside of your area of expertise, anyway.  A Correct.  Q Okay. Now, again, you know, you've also noted on here, we've seen at various points nickel, chromium, cobalt and arsenic, I believe, as well. And you'd agree with me that not all of the entries on the charts for these various

100 (Pages 394 to 397)

	Page 398		Page 400
1	Object to the form.	1	any Vermont talc with any other Vermont talc is
2	A Some are. Some are not.	2	gonna do nothing to lower potential heavy metal
3	MR. FROST:	3	values found in the finished product?
4	Q Okay. And a lot of them, you know, are	4	A It depends on whether you're including
5	ore samples, things of that nature?	5	arsenic in there as a as a heavy metal. I
6	MS. O'DELL:	6	don't I don't include arsenic as a heavy
7	Object to the form. Object to the	7	metal. But if you want to include it in there,
8	form, "a lot." What does that mean?	8	blending can reduce the arsenic level.
9	MR. FROST:	9	Q Okay. And arsenic's the only one that
10	Q Many of them? You know, a certain	10	you believe that blending can reduce?
11	number of them come from ore samples; correct?	11	A Haven't seen any indication that
12	MS. O'DELL:	12	blending with anything else would would reduce
13	Object to the form.	13	those numbers.
14	A I would say that that ore is	14	Q You also believe that there's no way to
15	converted to finished product, and there's no	15	use beneficiation to, say, remove chlorite from
16	indication that there's been any attempt to get	16	tale?
17	those metals out. So that's my answer.	17	A I think that that could probably be
18	MR. FROST:	18	done. And, in fact, my guess is that some of
19	Q You'd agreed with me, if done properly,	19	· ·
20	beneficiation could be used to lower the amounts		that is done. I think it's tough, because in
21	of heavy metals that may appear in a finished	20	a in a flotation plant, those two minerals
22	product; correct?	21	tend to respond similarly. And, so, when you
23	MS. O'DELL:	22	when you they were using a methyl isobutyl
24	Object to the form.	23	something or another in one of the plants. That
		24	frothing agent is excellent for talc, but I think
	Page 399		Page 401
1	A I don't think that there's been a	1	it's also pretty good for chlorite, too. I think
2	single study that's indicated that.	2	that by playing around, you might come up with a
3	MR. FROST:	3	frothing agent or an agent that might help pull
4	Q And would you agree with me that	4	chlorite out if you wanted to add a separate
5	blending is a technique that can be used to lower	5	circuit.
6	total heavy metal counts by using ores from	6	Q Okay.
7	different areas that have different	7	A But I don't know that that's true.
8	concentrations of heavy metals?	8	This is this is based on what I've read and
9	MS. O'DELL:	9	looked at, you might be able to do that. You'd
10	Object to the form.	10	have to try. It'd have to be bench bench
11	A If I was asked to produce a blended	11	scale testing.
12	tale that would lower the heavy metals, it would	12	Q Okay. So you'd agree with me that,
13	have to be blending Vermont talc with a	13	hypothetically, beneficiation, done properly,
14	non-Vermont source.	14	could remove the chlorite which would drop the
15	Say we know that the metal numbers are	15	levels of heavy metals contained in the talc?
-	low in Chinese talc. So if you wanted to have 50	16	MS. O'DELL:
16	percent Chinese tale, 50 percent Ludlow tale,	17	Object to the form.
16 17			A I would say that it might.
17		1 10	
17 18	then your total metals are gonna go down.	18	
17 18 19	then your total metals are gonna go down.  Q Okay.	19	MR. FROST:
17 18 19 20	then your total metals are gonna go down.  Q Okay.  A So blending can do that. But there's	19 20	MR. FROST: Q And, again, if I were to ask you
17 18 19 20 21	then your total metals are gonna go down.  Q Okay.  A So blending can do that. But there's no indication that anything like that was ever	19 20 21	MR. FROST:  Q And, again, if I were to ask you And I'll ask it as one question, which
17 18 19 20	then your total metals are gonna go down.  Q Okay.  A So blending can do that. But there's	19 20	MR. FROST: Q And, again, if I were to ask you

101 (Pages 398 to 401)

	Page 402		Page 404
1	I believe that's all of them.	1	A It's the the technique used by
2	A Yep. That's it.	2	Johnson & Johnson would not distinguish between
3	Q Okay. You couldn't tell me to any	3	the two, and their their specs don't try to
4	degree of scientific certainty that any	4	distinguish between the two.
5	individual container would contain enough of	5	They have a they have a report
6	these particular heavy metals to cause human	6	it's actually quite quite interesting where
7	disease; correct?	7	they have tried to determine how much of each was
8	MS. O'DELL:	8	present. And I didn't reference it, but I've got
9	Object to the form.	9	it somewhere. But there was an attempt probably
0	A I'm not an expert in human disease.	10	back in the late 1970s to look at this.
.1	MR. FROST:	11	Q You'd agree with me, based on the
2	Q And are you also aware that chromium is	12	sampling results that you rely on for your
.3	a fairly common	13	
4	Well, strike that.	14	report, you can't tell whether or not it's cobalt
.5	Are you aware there's two different	1	3 versus I'm sorry
.6	types of chromium? Well, there's more than, but	15	A Chromium.
.7	there are two different types of chromium that	16	Q chromium 3 versus chromium 6 in the
.8	are generally recognized to be associated with	17	tale; correct?
.9	rocks?	18	A They don't report it that way.
20	A Right. Yes.	19	MS. O'DELL:
21	<del>-</del>	20	Object to the form.
.1	· ·	21	A They report total chromium.
23	A Correct.	22	MR. FROST:
23 24	Q Okay. And you're also aware that chromium 6 is the one that causes concern;	23	Q Okay.
	chromium o is the one that causes concern;		
	,	24	A Pardon me. I'm not even sure they're
	Page 403	24	A Pardon me. I'm not even sure they're  Page 405
1	·	24	Page 405
1	Page 403	1	Page 405 reporting total chromium because that that is
1 2	Page 403 correct? MS. O'DELL:	1 2	Page 405 reporting total chromium because that that is based on what extraction technique they used.
1 2 3	Page 403 correct? MS. O'DELL: Object to the form.	1 2 3	reporting total chromium because that that is based on what extraction technique they used.  Q Okay. I'm gonna switch gears and turn
1 2 3 4	Page 403 correct? MS. O'DELL: Object to the form. A Yes. Plus 6 chromium is is, you	1 2 3 4	reporting total chromium because that that is based on what extraction technique they used.  Q Okay. I'm gonna switch gears and turn to Exhibit 4, which are your invoices. And one
1 2 3 4 5	Page 403 correct? MS. O'DELL: Object to the form. A Yes. Plus 6 chromium is is, you know, considered to be, you know, very bad.	1 2 3 4 5	reporting total chromium because that that is based on what extraction technique they used.  Q Okay. I'm gonna switch gears and turn to Exhibit 4, which are your invoices. And one thing I noticed as I was going through,
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1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 7 8 9 0 1 7 8 9 0 1 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	correct?  MS. O'DELL: Object to the form.  A Yes. Plus 6 chromium is is, you know, considered to be, you know, very bad.  MR. FROST: Q Okay. And, in fact, chromium 3 is an essential element to human bodies and everything else.  MS. O'DELL: Object to the form.  MR. FROST: Q It's something human bodies need to function.  A Uh-huh. Yes. Q And you're also aware that cobalt 3 is a common element found in rock.  A Cobalt 3? Q Sorry. Chromium 3.  A Yes. Q Okay. And you'll agree with me that	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	reporting total chromium because that that is based on what extraction technique they used.  Q Okay. I'm gonna switch gears and turn to Exhibit 4, which are your invoices. And one thing I noticed as I was going through, variously, invoices have notations with meeting with, like, for example, invoice number 5, meeting with potential expert witnesses, Brian Fowler and Don Burns.  A Right.  Q Who are Brian Fowler and Don Burns?  A Don Burns is the chief geologist for Omnia in Vermont, and he and I are friends.  And Brian Fowler, remember the citation of Chidester, Billings, and Cady?  Q Uh-huh.  A Brian Fowler's father-in-law was Marlin Billings, the Billings in that report. And he is a consulting geologist that lives in New Hampshire, right across the line, and he owns or owned a company called North American

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	Page 406		Page 408
1	that.	1	Q Okay. And I take it that paper had
2	And, so, at one point, since I was up	2	nothing to do with talc, this litigation.
3	there, I said, "I'm gonna look up Brian." Brian	3	A Absolutely. But he gave me something.
4	Fowler had worked down here in Alabama. That's	4	Q It was more of an interesting piece?
5	how I knew him.	5	A Yeah. Very interesting.
6	So I looked him up, and he said, you	6	Q Well, sir, thank you very much. That's
7	know, "I don't know enough about it to be of any	7	all the questions I have for right now. I'm
8	help."	8	gonna yield my time at this point to my colleague
9	Q Okay. So that was the nature of your	9	from Imerys, but I do reserve the right to come
10	conversation with Brian Fowler is just	10	back and ask a few questions if I find anything
11	A Yeah, sure.	11	in my notes.
12	Q I'm working on this; would you be	12	A Sure.
13	interested; and he said, "Unfortunately, I'm not	13	Can I add something? I misspoke
14	qualified"?	14	earlier about Longo.
15	A Same with Don burns, and his answer was	15	Q Okay.
16	"Hell, no."	16	A I had several copies of reports that he
17	Q I was gonna say. So who's Don Burns?	17	did, and I I actually had, I want to say,
18	A He's the chief geologist for Omnia.	18	about 35 pages of that supplemental report that
19	Q Okay.	19	summarized, you know, the percent samples that
20	A Their account producer there.	20	that had fibrous talc. And I did rely on that.
21	Q And did Mr. Burns express to you why he	21	But I didn't have the full 2,000 pages in front
22	was not interested in	22	of me.
23	A He's retiring, didn't want to be	23	Q Okay.
24	involved. In fact, he's probably retired now.	24	A So I did I did use him some, but not
	Page 407		Dama 400
	5		Page 409
1	But he was, you know, looking at retirement a few	1	
1 2		1 2	in terms of trying to analyze what he did.  Q Okay. So is it fair to say your
	But he was, you know, looking at retirement a few		in terms of trying to analyze what he did.
2	But he was, you know, looking at retirement a few months out. He said you know, he's gonna live	2	in terms of trying to analyze what he did.  Q Okay. So is it fair to say your
2	But he was, you know, looking at retirement a few months out. He said you know, he's gonna live in Proctorsville, Vermont, for the rest of his	2 3	in terms of trying to analyze what he did.  Q Okay. So is it fair to say your reliance on the Longo testing is with respect to
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	Page 410		Page 412
1	record and I'll change seats with my colleague.	1	Q Let me ask you a few things
2	Thank you very much.	2	preliminarily. The one thing I noticed on your
3	A Sure.	3	CV is that you had a consultancy with Cyprus
4	VIDEOGRAPHER:	4	Mines Corporation
5	Going off the record. The time is	5	A Yes.
6	5 p.m.	6	Q at some point. Can you tell us when
7	(OFF THE RECORD.)	7	that was?
8	VIDEOGRAPHER:	8	A 1971 and '72. And this was as a
9	We're back on the record. The time is	9	consultant through a firm that I worked for.
10	5:01 p.m.	10	Q And what firm were you working for at
11	EXAMINATION	11	that time?
12	BY MR. FERGUSON:	12	A Lindgren Exploration Company.
13	Q Good afternoon, Dr. Cook. How are you?	13	Q And could you tell us the general
14	A Fine.	14	nature of your consultancy with Cyprus Mines
15	Q We met briefly before the deposition	15	Corporation?
16	started.	16	A Exploration for massive sulfites,
17	A Yes.	17	looking for copper.
18	Q My name is Ken Ferguson. Along with	18	Q So it was an exploration stage rather
19	Andrew Cary here to my right, we represent	19	than a mining stage like you've been talking
20	Imerys. You understand that?	20	about today?
21	A Yes.	21	A Yes. It was exploration.
22	Q And I'm gonna ask you some questions	22	Q And how long did that consultancy with
23	today regarding your testimony and your report.	23	Cyprus Mines continue, more or less?
24	Please make sure, as Mr. Frost told you, you	24	A It it was full-time pretty much for
	Page 411		Page 413
1	understand what I'm asking before you answer, and	1	a year and a half, and then it was part-time.
2	then let me know if you don't, and I'll restate	2	And then I came to Auburn and it continued a
3	the question. Fair enough?	3	little bit.
4	A Fair enough.	4	But Cyprus, they they acquired
5	Q Okay. And one thing that I think	5	property where I was working, but in the end they
6	everybody gets in a little trouble with in this	6	handed it off to Kennecott Copper and, you know,
7	process, particularly if they haven't been	7	the end result was a failed project. We didn't
8	through it much before, is talking before the	8	find anything.
9	person finishes asking the question.	9	Q Any other consultancies with Cyprus
10	A All right.	10	Mines Corporation?
11	Q Because we all do that in normal	11	A Not not under that name. You know,
12	conversation. So if you'd do your best to just	12	Cyprus was sold to FI Freeport-McMoRan,
13	wait till I finish my question, and then and	13	somebody like that. And there were Cyprus
14	then answer, and then I think we can we can go	14	employees that moved over to Freeport. But I
	a little bit smoother. Fair enough?	15	never did any more work for them, although I
15	a little oit sillootilei. Tali cilougii:	1	•
15 16	A Fair.	16	you know, I was associated with their employees
	——————————————————————————————————————	16 17	you know, I was associated with their employees even to this day.
16	A Fair. MS. O'DELL:	1	even to this day.
16 17	A Fair.  MS. O'DELL:  I would just add give me a millisecond	17	even to this day.  Q And I take it you've never consulted
16 17 18 19	A Fair.  MS. O'DELL:  I would just add give me a millisecond between the question and the answer, and I'll	17 18	even to this day.
16 17 18	A Fair. MS. O'DELL: I would just add give me a millisecond between the question and the answer, and I'll have my opportunity to object if I need to.	17 18 19	even to this day.  Q And I take it you've never consulted with Imerys?  A No. I have.
16 17 18 19 20	A Fair. MS. O'DELL: I would just add give me a millisecond between the question and the answer, and I'll have my opportunity to object if I need to. THE WITNESS:	17 18 19 20	even to this day.  Q And I take it you've never consulted with Imerys?  A No. I have.  Q Okay. Tell me the nature of that
16 17 18 19 20 21	A Fair. MS. O'DELL: I would just add give me a millisecond between the question and the answer, and I'll have my opportunity to object if I need to.	17 18 19 20 21	even to this day.  Q And I take it you've never consulted with Imerys?  A No. I have.

104 (Pages 410 to 413)

	Page 414		Page 416
1	Q I'm sorry. At what?	1	I just want him to understand that
2	A Sylacauga. It's the name of a town	2	there's not another document other than what he
3	where Imerys has three operating quarries. They	3	has marked as exhibit it's been marked as
4	make fine ground ultra-white carbonate for paper	4	Exhibit 1 and 2, that that red-line is something
5	coating and other other things.	5	that you you've created.
6	Q And when was that?	6	MR. FERGUSON:
7	A It's been within the last ten years.	7	Fair enough. Yes. And I didn't mean
8	It was a this was a relationship that was	8	to imply otherwise. So, yes.
9	probably a year and a half long. I think I was	9	Q I just wanted to see what change you
10	deposed twice.	10	made, and there are some computer programs you
11	Q And how about Luzenac? Any	11	can do. I think we we all do them on
12	consultancies with Luzenac?	12	occasion.
13	A No.	13	So are you with me on page 11?
14	Q How about Rio Tinto Minerals?	14	A I am on page 11.
15	A No.	15	Q All right. And you see there's a
16	Q Let me change gears a little bit and	16	paragraph that starts "serpentine asbestos"?
17	ask you about a couple things in your report.	17	
18	A Sure.		
19	Q And I'll tell you, I'm kind of	18	Q Do you see that?
20	prioritizing since I I have limited time. I'd	19	A Yes.
21	like to finish up relatively quickly here. And,	20	Q And, in that paragraph, about midway
22	so, I may skip around a little bit. It's not to	21	through, I guess four lines down, you say, "In
23	confuse you.	22	1991, Dr. Alice Blount reported the presence of
24	A I understand.	23	asbestos needles and fibers in Vermont talc which
	Tunderstand.	24	she later confirmed to be J&J baby powder."
	Page 415		Page 417
1	Q So just make sure we're on the same	1	And then you cite to Blount 1991 and
2	page when you answer the questions. Fair enough?	2	her deposition. Is that correct?
3	A Sure.	3	A Well, I think that it was what I've
4	Q And, also, I decided it would be smart	4	referenced there might have been an exhibit in
5	to to copy or print your red-line version of	1	
5 6	to to copy or print your red-line version of your your report so I could see what changes	5 6	Hopkins' deposition.
6	your your report so I could see what changes	5 6	Hopkins' deposition. Q Okay. Fair enough.
	your your report so I could see what changes you made, but it messed up the pagination. So if	5	Hopkins' deposition.  Q Okay. Fair enough.  And but you also, in your citation, say
6 7	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with	5 6 7 8	Hopkins' deposition.  Q Okay. Fair enough.  And but you also, in your citation, say "Dep Alice Blount"
6 7 8	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough?	5 6 7 8 9	Hopkins' deposition.  Q Okay. Fair enough.  And but you also, in your citation, say "Dep Alice Blount"  A Right.
6 7 8 9	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough?  A Fair.	5 6 7 8 9	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D."
6 7 8 9 10	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough?  A Fair.  Q Can you go to page 11 of your report,	5 6 7 8 9 10 11	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition.
6 7 8 9 10 11	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough?  A Fair.  Q Can you go to page 11 of your report, please, sir?	5 6 7 8 9 10 11 12	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay.
6 7 8 9 10 11 12	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough?  A Fair.  Q Can you go to page 11 of your report, please, sir?  MS. O'DELL:	5 6 7 8 9 10 11 12 13	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it.
6 7 8 9 10 11 12 13	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a	5 6 7 8 9 10 11 12 13 14	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991
6 7 8 9 10 11 12 13 14	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created?	5 6 7 8 9 10 11 12 13 14 15	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper?
6 7 8 9 10 11 12 13 14 15	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON:	5 6 7 8 9 10 11 12 13 14 15	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did.
6 7 8 9 10 11 12 13 14 15 16	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line	5 6 7 8 9 10 11 12 13 14 15 16 17	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she
6 7 8 9 10 11 12 13 14 15 16 17	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line yeah, yeah.	5 6 7 8 9 10 11 12 13 14 15 16 17 18	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she later confirmed the presence of asbestos needles
6 7 8 9 10 11 12 13 14 15 16 17 18	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line yeah, yeah. MS. O'DELL:	5 6 7 8 9 10 11 12 13 14 15 16 17 18	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she later confirmed the presence of asbestos needles and fibers in what she later confirmed as J&J
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line yeah, yeah. MS. O'DELL: Because there was no red-lining	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she later confirmed the presence of asbestos needles and fibers in what she later confirmed as J&J baby powder, there's no reference to J&J baby
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line yeah, yeah. MS. O'DELL: Because there was no red-lining MR. FERGUSON:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she later confirmed the presence of asbestos needles and fibers in what she later confirmed as J&J baby powder in her paper itself in 1991, is there?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line yeah, yeah. MS. O'DELL: Because there was no red-lining MR. FERGUSON: I understand. I just did a compare.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she later confirmed the presence of asbestos needles and fibers in what she later confirmed as J&J baby powder, there's no reference to J&J baby powder in her paper itself in 1991, is there? A I don't think so.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your your report so I could see what changes you made, but it messed up the pagination. So if I get messed up there, you'll have to bear with me. Fair enough? A Fair. Q Can you go to page 11 of your report, please, sir? MS. O'DELL: What what red-line? Is that a red-line you created? MR. FERGUSON: No. It's your it's the red-line yeah, yeah. MS. O'DELL: Because there was no red-lining MR. FERGUSON:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Hopkins' deposition.  Q Okay. Fair enough. And but you also, in your citation, say "Dep Alice Blount" A Right. Q "Ph.D." A Right. I read her deposition. Q Okay. A She talked about it. Q All right. Now, did you read her 1991 paper? A Yes, I did. Q And while you say in here that she later confirmed the presence of asbestos needles and fibers in what she later confirmed as J&J baby powder in her paper itself in 1991, is there?

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not to identify what she was working I think she gave, you know, numerical or to her samples. DELL: In the paper? VITNESS: Right. I think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper, on & Johnson baby powder was not identified?	1 2 3 4 5 6 7 8 9	Q And we're gonna go through these notes in more detail later so so we can understand what they are, but I just wanted to hit this point early on.  If you'd pass that back to me if you're done.  A Sure.  Q That's all I wanted to ask you.  And then I wanted to ask you about 3.5,
to her samples.  DELL: In the paper? VITNESS: Right. It think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper,	3 4 5 6 7 8 9	what they are, but I just wanted to hit this point early on.  If you'd pass that back to me if you're done.  A Sure.  Q That's all I wanted to ask you.  And then I wanted to ask you about 3.5,
DELL: In the paper? VITNESS: Right. I think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper,	4 5 6 7 8 9	point early on.  If you'd pass that back to me if you're done.  A Sure.  Q That's all I wanted to ask you.  And then I wanted to ask you about 3.5,
In the paper? WITNESS: Right. I think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper,	5 6 7 8 9	If you'd pass that back to me if you're done.  A Sure.  Q That's all I wanted to ask you.  And then I wanted to ask you about 3.5,
VITNESS: Right. I think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper,	6 7 8 9 10	done.  A Sure.  Q That's all I wanted to ask you.  And then I wanted to ask you about 3.5,
Right. I think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper,	7 8 9 10	A Sure. Q That's all I wanted to ask you. And then I wanted to ask you about 3.5,
think that she was trying to, you shield the sources. ERGUSON: Okay. But in the paper,	8 9 10	Q That's all I wanted to ask you.  And then I wanted to ask you about 3.5,
shield the sources. ERGUSON: Okay. But in the paper,	9	And then I wanted to ask you about 3.5,
ERGUSON: Okay. But in the paper,	10	
Okay. But in the paper,		
		which I will pass to Miss O'Dell first.
n & Johnson baby powder was not identified?	11	MS. O'DELL:
	12	Thank you.
Correct.	13	MR. FERGUSON:
And you say she later confirmed that a	14	Q Now, again, is that another page of
was Johnson & Johnson baby powder.	15 16	your notes?
t?	17	A Yes.
Correct.	18	Q Okay. And, if you wouldn't mind, can you hand it since we just got it today, I
Now, I have marked as it was already	19	didn't make copies of it.
d as Exhibit 3 a folder with your notes,	20	A Sure.
e taken the liberty I hope it's okay	21	Q Can you hand it to me and let me ask
Sure.	22	you a question or two?
marking each page. There's a 3.1,	23	You have a notation after page 53 that
we can identify what we're talking about.	24	says "date confusion, 1996 purchase versus 1991
ough?		200 parenties (100 pa
Page 419		Page 421
Fair enough.	1	paper. Sample I-J&J baby powder."
Okay. And let me show you what I've	2	A Uh-huh.
ted as Exhibit 3.2.	3	Q Is that correct? Did I read that
O'DELL:	4	correctly?
Can you do a round robin so I can	5	A Right. And I'm not sure that I wasn't
FERGUSON:	6	the one confused. But when I when I read
Yeah. If I find	7	this was in her deposition. I believe these page
O'DELL:	8	numbers refer to her deposition. And I think
	9	that she corrected some information that she may
so I can	1	
FERGUSON:	10	have misspoke.
FERGUSON: Sure.	10 11	Q But but you certainly, in reading
FERGUSON: Sure. Okay.	10 11 12	Q But but you certainly, in reading it, were confused about what she was talking
FERGUSON: Sure. Okay. FERGUSON:	10 11 12 13	Q But but you certainly, in reading it, were confused about what she was talking about; correct?
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount	10 11 12 13 14	Q But but you certainly, in reading it, were confused about what she was talking about; correct?  A Correct.
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount et op of that page; correct?	10 11 12 13 14 15	Q But but you certainly, in reading it, were confused about what she was talking about; correct? A Correct. Q And you were confused about what she
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount etop of that page; correct? Yes.	10 11 12 13 14 15 16	Q But but you certainly, in reading it, were confused about what she was talking about; correct? A Correct. Q And you were confused about what she was talking about with regard to the sample that
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount etop of that page; correct? Yes. And what what does that say? I just	10 11 12 13 14 15 16 17	Q But but you certainly, in reading it, were confused about what she was talking about; correct?  A Correct.  Q And you were confused about what she was talking about with regard to the sample that she was trying to identify; correct?
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount etop of that page; correct? Yes. And what what does that say? I just to make sure I know what it means.	10 11 12 13 14 15 16 17	Q But but you certainly, in reading it, were confused about what she was talking about; correct?  A Correct.  Q And you were confused about what she was talking about with regard to the sample that she was trying to identify; correct?  MS. O'DELL:
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount etop of that page; correct? Yes. And what what does that say? I just to make sure I know what it means. It says "Add Alice Blount."	10 11 12 13 14 15 16 17 18	Q But but you certainly, in reading it, were confused about what she was talking about; correct? A Correct. Q And you were confused about what she was talking about with regard to the sample that she was trying to identify; correct? MS. O'DELL: Object to the form.
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount etop of that page; correct? Yes. And what what does that say? I just to make sure I know what it means. It says "Add Alice Blount." And, then, what does that mean?	10 11 12 13 14 15 16 17 18 19 20	Q But but you certainly, in reading it, were confused about what she was talking about; correct? A Correct. Q And you were confused about what she was talking about with regard to the sample that she was trying to identify; correct? MS. O'DELL: Object to the form. A It was the dates. Only only the
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount et op of that page; correct? Yes. And what what does that say? I just to make sure I know what it means. It says "Add Alice Blount." And, then, what does that mean? It simply meant that I needed to	10 11 12 13 14 15 16 17 18 19 20 21	Q But but you certainly, in reading it, were confused about what she was talking about; correct? A Correct. Q And you were confused about what she was talking about with regard to the sample that she was trying to identify; correct? MS. O'DELL: Object to the form. A It was the dates. Only only the dates.
FERGUSON: Sure. Okay. FERGUSON: And there's a reference to Alice Blount etop of that page; correct? Yes. And what what does that say? I just to make sure I know what it means. It says "Add Alice Blount." And, then, what does that mean?	10 11 12 13 14 15 16 17 18 19 20	Q But but you certainly, in reading it, were confused about what she was talking about; correct? A Correct. Q And you were confused about what she was talking about with regard to the sample that she was trying to identify; correct? MS. O'DELL: Object to the form. A It was the dates. Only only the
FE S (FE e to	RGUSON: ure. Okay. RGUSON: And there's a reference to Alice Blount up of that page; correct? Yes. And what what does that say? I just	ure. Okay.  CRGUSON: And there's a reference to Alice Blount pp of that page; correct?  Yes. And what what does that say? I just 17

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	Page 422		Page 424
1	A Correct.	1	Q And and, so, I want to understand
2	Q Okay. Did that have to do with when	2	that testimony. I think you and Mr. Frost talked
3	she acquired the sample?	3	a bit about that. You're you're saying that,
4	A I think that that had to do with the	4	for example, Mr. Downey noted in his deposition
5	date that she mentioned in her deposition, which	5	that the talc is asbestos-free. Is that correct?
6	was incorrect. Now, that's from my memory.	6	A I think so.
7	Q And, then, you've written another note	7	Q Let's look at a portion of his
8	by page 57. And what does that note say?	8	deposition together. And if you'd go to your
9	A You're asking me to read my own	9	left, I believe, is a white binder that says
10	writing?	10	"Downey."
11	Q If you don't mind.	11	A Yeah. Okay.
12	A Okay.	12	Q You've got it?
13	Q I can take a shot at it, but you may	13	A Yeah. Sure.
14	have a better shot.	14	Q Okay. And and, if you would, turn
15	A It says "Confusion concerning sample	15 16	to Mr. Downey's deposition.
16	IDs."	17	A Okay. MS. O'DELL:
17	And, again, it was it was me that	18	Ken, when you get to wherever you're
18	was confused. I had to go back and reread what	19	going, let me know the number. I can get there,
19	she was saying, and there were a couple of	20	but it may take me just a second.
20	handwritten exhibits, I think, in her deposition	21	MR. FERGUSON:
21	that that I had to look at two or three times.	22	Sure. Yep. Yep. I have that. I'm
22	Q And would you agree that there was some	23	trying to identify the pages on the computer.
23	confusion about when she purchased the particular	24	Oh, there it is.
24	sample that she was referencing and she had		on, there it is.
	Page 423		Page 425
1	tested?	1	Q Okay. So so if you look at page
2	A I don't think	2	96
3	MS. O'DELL:	3	A Okay.
4			
-	Object to the form.	4	Q So you see at starting at line 17
5	Object to the form.  A I don't think she was confused. I	4 5	Q So you see at starting at line 17 A Uh-huh.
			A Uh-huh. Q the question by, I believe,
5	A I don't think she was confused. I think I was confused. MR. FERGUSON:	5	A Uh-huh. Q the question by, I believe, Miss O'Dell, it says: "And 'Imerys Talc
5 6 7 8	A I don't think she was confused. I think I was confused. MR. FERGUSON: Q Let's talk about another issue, which	5 6 7 8	A Uh-huh.  Q the question by, I believe,  Miss O'Dell, it says: "And Imerys Talc  America.' I'm just going to go ahead, since I've
5 6 7 8 9	A I don't think she was confused. I think I was confused.  MR. FERGUSON: Q Let's talk about another issue, which is can you go to your report at page 41?	5 6 7 8 9	A Uh-huh.  Q the question by, I believe, Miss O'Dell, it says: "And 'Imerys Talc America.' I'm just going to go ahead, since I've done that much. 'RTM and Luzenac America was/is
5 6 7 8 9	A I don't think she was confused. I think I was confused.  MR. FERGUSON: Q Let's talk about another issue, which is can you go to your report at page 41? A Got it.	5 6 7 8 9	A Uh-huh.  Q the question by, I believe, Miss O'Dell, it says: "And 'Imerys Talc America.' I'm just going to go ahead, since I've done that much. 'RTM and Luzenac America was/is responsible for ensuring that the talc sold to
5 6 7 8 9 10 11	A I don't think she was confused. I think I was confused.  MR. FERGUSON:  Q Let's talk about another issue, which is can you go to your report at page 41?  A Got it.  Q In the the well, it's one of	5 6 7 8 9 10	A Uh-huh.  Q the question by, I believe, Miss O'Dell, it says: "And 'Imerys Talc America.' I'm just going to go ahead, since I've done that much. 'RTM and Luzenac America was/is responsible for ensuring that the talc sold to J&J was" since they're currently selling it
5 6 7 8 9 10 11	A I don't think she was confused. I think I was confused.  MR. FERGUSON:  Q Let's talk about another issue, which is can you go to your report at page 41?  A Got it.  Q In the the well, it's one of those where I can't tell you when. There's a	5 6 7 8 9 10 11 12	A Uh-huh.  Q the question by, I believe, Miss O'Dell, it says: "And 'Imerys Talc America.' I'm just going to go ahead, since I've done that much. 'RTM and Luzenac America was/is responsible for ensuring that the talc sold to J&J was" since they're currently selling it "is asbestos-free. Can we agree on that?"
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	Page 426		Page 428
1	that. The concept of measurable asbestos is an	1	asbestos-free, and we've been, you know, in this
2	interesting one. There's a way to preconcentrate	2	room together for a few hours and, you know,
3	samples that gives you a lot bigger opportunity	3	even, say, that the air in this room is
4	to detect small amounts of asbestos. And this	4	asbestos-free. So I can't really agree with the
5	was pointed out in the in the '70s by both	5	way that you've written that."
6	Pooley, Colorado School of Mines, and even, I	6	Did I read that correctly?
7	believe, Dartmouth. And this idea of	7	A Yeah.
8	preconcentration	8	Q Okay. And certainly based on the
9	Oh, and Alice Blount even that was	9	answers that we read
10	what she used. It was completely rejected for	10	And I'm not gonna sit here and read the
11	reasons unknown. And it would have it would	11	whole deposition, and you wouldn't want me to.
12	have allowed a much lower detection limit.	12	A Yeah. That's a problem.
13	And, so, it's easy to say, you know,	13	Q But in terms of what we've read, he did
14	well, we didn't really detect any. But he could	14	not say that the policy was asbestos-free. He
15	have added but we might have if we'd used a	15	explained in his answers what his what the
16	preconcentration technique, as recommended. So,	16	policy was or his philosophy of the policy.
17	you know, I'm not sure what what he really	17	MS. O'DELL:
18	might have been meaning there.	18	Object to the form.
19	Q Okay. Well, but you don't know what he	19	MR. FERGUSON:
20	meant, but we can read what his testimony was, as	20	Q Correct, sir?
21	we did; correct?	21	A I think on the two pages we looked at
22	MS. O'DELL:	22	out of a deposition that's, what, 5- or 600 pages
23	Object to the form.	23	long.
24	A And we did.	24	Q Can you cite me to the portion
	Page 427		Page 429
1	MR. FERGUSON:	,	A 37
	MIK. I EKGODOI V.	1	A No.
2		2	
2			Q in which Mr. Downey said what you
	Q Okay. Why don't you go to page 97.	2	
3	Q Okay. Why don't you go to page 97. Let's read one more question and answer.	2 3	Q in which Mr. Downey said what you said he said, which is that the policy is
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108 (Pages 426 to 429)

	Page 430		Page 432
1	MR. FERGUSON:	1	Object to the form.
2	Barely?	2	A I thought that you asked about
3	MS. O'DELL:	3	peer-reviewed publications. I've not cited Longo
4	Barely.	4	in a peer-reviewed publication. The only place
5	MR. FERGUSON:	5	I've ever mentioned him is in my expert report.
6	You ready for us to go, Leigh?	6	I guarantee it won't be published.
7	MS. O'DELL:	7	MR. FERGUSON:
8	Yeah, yeah.	8	Q In your report on a number of
9	MR. FERGUSON:	9	occasions, you refer to contemporaneous testing
10	Q Dr. Cook, as you and Mr. Frost talked	10	that shows the presence of of certain
11	about, you've published a number of peer-reviewed	11	contaminants in Johnson & Johnson's baby powder.
12	academic papers; correct?	12	Correct?
13	A Correct.	13	A "Contemporaneous testing."
14	Q Is it fair to say that customarily you	14	Q Yes, sir.
15	cite peer-reviewed research in your academic	15	A I mean, is that your word or my word?
16	papers?	16	Q That's your word.
17	A It's not the only thing you cite, but,	17	A Okay.
18	sure, that's fair enough.	18	Q When you refer to contemporaneous
19	Q Okay. And and in your academic	19	testing, are you referring to to Dr. Longo's
20	papers, would it be fair to say that you	20	report?
21	generally do not cite to paid experts for a	21	A No.
22	particular party with an interest in the	22	Q Okay. What are you referring to?
23	litigation?	23	A No. I think contemporaneous testing
24	MS. O'DELL:	24	means that you're you're testing in a in a
	Page 431		Page 433
1	Object to the form.	1	timely manner relative to the processes that are
2	A I would hope not to do that.	2	in place. For instance, if you're gonna if
3	MR. FERGUSON:	۱ ،	
1		3	you're gonna test the drill cuttings that are
4	Q Okay. So in your academic papers, you	4	you're gonna test the drill cuttings that are generated by your blast hole driller, then you
5			
	Q Okay. So in your academic papers, you	4	generated by your blast hole driller, then you
5	Q Okay. So in your academic papers, you would not cite to a non-peer-reviewed publication	4 5	generated by your blast hole driller, then you need to go ahead and analyze those. It makes no
5 6	Q Okay. So in your academic papers, you would not cite to a non-peer-reviewed publication that is authored by a litigation expert who was	4 5 6	generated by your blast hole driller, then you need to go ahead and analyze those. It makes no sense to wait for a year after the blast has been
5 6 7	Q Okay. So in your academic papers, you would not cite to a non-peer-reviewed publication that is authored by a litigation expert who was hired by a particular side in litigation;	4 5 6 7	generated by your blast hole driller, then you need to go ahead and analyze those. It makes no sense to wait for a year after the blast has been made and another blast and another blast and then
5 6 7 8	Q Okay. So in your academic papers, you would not cite to a non-peer-reviewed publication that is authored by a litigation expert who was hired by a particular side in litigation; correct?	4 5 6 7 8	generated by your blast hole driller, then you need to go ahead and analyze those. It makes no sense to wait for a year after the blast has been made and another blast and another blast and then analyze them. That would not be contemporaneous
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109 (Pages 430 to 433)

	Page 434		Page 436
1	Because, you know, he has more than one report.	1	MS. O'DELL:
2	Q Now, Dr. Longo's reports relate to	2	Fair enough.
3	whether there is or is not asbestos in baby	3	MR. FERGUSON:
4	powder; correct?	4	Trying to save time there.
5	A And fibrous talc.	5	MS. O'DELL:
6	Q Okay. Now, are you aware that the	6	Okay. Well, I'm just being clear.
7	U.S. Food and Drug Administration actually tested	7	MR. FERGUSON:
8	a number of body powder products and raw material	8	Fair enough. So we'll start over so I
9	talc about ten years ago to determine if, in	9	say that say that technically correct.
10	fact, there was asbestos detected in that that	10	Q You are aware, then, that a raw
11	product or those products?	11	cosmetic raw material talc that was supplied by
12	A I'm	12	Rio Tinto Mineral/Luzenac America in eight
13	MS. O'DELL:	13	separate lots was supplied to the FDA for
14	Object to the form.	14	testing?
15	A I'm familiar with the report. And at	15	A I don't know about the eight separate
16	the end of the report, it says that these results	16	lots.
17	are not to be taken to mean there's no asbestos	17	Q Okay.
18	in these products.	18	A I don't remember that.
19	MR. FERGUSON:	19	Q You know they supplied some.
20	Q With regard to the findings of that	20	A Yes.
21	report, do you know that that both	21	Q And that there was no asbestos
22	Johnson & Johnson and Imerys supplied product to	22	detected; correct?
23	be tested by the FDA?	23	A Correct.
24	A Yes.	24	Q And that there was no asbestos
	Page 435		Page 437
1	Q Correct?	1	A With some methods employed.
2	MS. O'DELL:	2	Q Of course. With the methods they
3	Object to the form. That's a	3	employed, the U.S. Food and Drug Administration,
4	misstatement as to Johnson & Johnson, as you're	4	there was no asbestos detected in the
5	aware.	5	Johnson & Johnson baby powder product that they
6	MR. FERGUSON:	6	had obtained. Correct?
7	Let me go back.	7	A Right.
8	MS. O'DELL:	8	MS. O'DELL:
9	In terms of supplying it. They	9	Object to the form.
10	purchased it, but Johnson & Johnson did not	10	A Yes.
11	supply.	11	MR. FERGUSON:
12	MR. FERGUSON:	12	Q And is it also true that they obtained
13	My my bad language. Okay?	13	a Johnson & Johnson Shower to Shower product as
14	Q Do you understand that the FDA did, in	14	well?
15	fact, test a Johnson & Johnson baby powder	15	A I believe that's correct.
16	product?	16	Q Okay. And, likewise, did they find
17	A Correct.	17	that the Shower to Shower product had no asbestos
1 0	Q And they also tested some cosmetic raw	18	detected by the methods they utilized?
18	material talc supplied by Luzenac; correct?	19	A I think that's correct.
19	A T 41- :1- 411 4	20	Q Let's talk a little bit about the other
19 20	A I think that's right.	0.1	
19 20 21	MS. O'DELL:	21	substances that you have talked about today,
19 20 21 22	MS. O'DELL: Rio Tinto.	22	including the so-called heavy metals. First of
19 20 21	MS. O'DELL:		

110 (Pages 434 to 437)

Page 44
1 Object to the form.
2 A I don't know. But if you tell me that,
3 I would accept it.
4 MR. FERGUSON:
5 Q Okay. I could refer you to IARC page
6 175.
7 A Okay.
8 Q I'll tell you IARC says that.
9 A Okay.
10 Q You're not arguing with IARC on that
point, are you?
12 A Nope.
Q Okay. And nickel's found in food and
<ul><li>14 drinking water; correct?</li><li>15 A Yes.</li></ul>
, ,
,
18 A Correct.  19 Q The general population can be exposed
to chromium through inhalation of ambient air o
21 ingestion; correct?
22 A Correct.
23 Q Now, you've talked about each of these
substances, nickel, chromium, arsenic, and said
Page 44
1 that I'm trying to figure out where you
2 said these are known carcinogens, I believe, in
3 each instance. Is that correct?
4 MS. O'DELL:
5 Object to the form.
6 MR. FERGUSON:
7 Q In your report.
8 MS. O'DELL:
9 Object to the form.
10 A Yes. You did not include cobalt;
11 right?
12 MR. FERGUSON:
13 Q I did not include cobalt.
14 A Okay. Right, then.
15 Q Is that correct?
16 A I think so.  So nickel, chromium, arsenic you have
Q So nickel, chromium, arsenic you have said are known carcinogens; correct?
Q or carcinogenicity or medicine; correct?

111 (Pages 438 to 441)

	Page 442		Page 444
1	A Correct.	1	Would you agree with me that asbestos minerals
2	Q But in your report you said these are	2	are widespread in the environment?
3	known carcinogens; correct? Is that based on	3	MS. O'DELL:
4	A Well, I think they're spelled out in	4	Object to the form.
5	IARC that they are.	5	A Asbestos minerals? Yes. In terms of
6	Q Now, with regard to IARC, with regard	6	the amphiboles with respect to chrysotile,
7	to and we'll take them separately. With	7	probably it's it's more limited in occurrence.
8	regard to nickel, is there any statement in IARC	8	MR. FERGUSON:
9	indicating that nickel is in any way associated	9	Q And why don't why don't we go ahead
10	with ovarian cancer?	10	and just refer, in case we need to, to the IARC
11	MS. O'DELL:	11	2012 monograph.
12	Object to the form.	12	I I set it over there to his left,
13	A I did not read anything to that effect.	13	Leigh. I believe it's the one right there, if I
14	MR. FERGUSON:	14	recall correctly.
15	Q Okay. And with regard to chromium, is	15	A Okay.
16	there any indication in the IARC report in 2012	16	Q Can you, first of all, turn to the
17	that chromium is in any way associated with	17	monograph itself, which I think is the first item
18	ovarian cancer?	18	in there?
19	MS. O'DELL:	19	A It is.
20	Object to the form.	20	Q Okay. And would you go to page 222?
21	A Again, I didn't read anything that	21	A I'm getting there. Okay. I've got it.
22	would indicate that.	22	Q Are you there, 222?
23	MR. FERGUSON:	23	A Right. Uh-huh.
24	Q And, likewise, arsenic, is there any	24	Q Under "Natural Occurrence"
24	Q And, fixewise, arsenie, is there any	24	Q Onder Natural Occurrence
	Page 443		Page 445
1	indication in the IARC report that arsenic is in	1	A Uh-huh.
2	any way associated with ovarian cancer?	2	Q Do you see that section? And there's
3	MS. O'DELL:	3	the sentence I just quoted, "Asbestos minerals
4	Object to the form.	4	are widespread in the environment and are found
5	A I didn't read anything like that.	5	in many areas where the original rock mass has
6	MR. FERGUSON:	6	undergone metamorphism."
7	Q And you understand that that the	7	Correct?
8	litigation that we're here today about deals with	8	A Correct.
9	ovarian cancer; correct?	9	Q And further they go on in IARC to say
10	A I I understand that.	10	that asbestos minerals are found in the water,
11	Q You're welcome to look at it, but I'll	11	soil, and air.
12	represent to you on pages 5 to 6 of your report	12	Is that accurate?
13	you you have a quote that says, "Hand sorting	13	MS. O'DELL:
14	at the Chinese mine is used as a first step in	14	In terms of what it states or
15	the beneficiation process."	15	MR. FERGUSON:
	Do you recall generally making that	16	Q Yeah.
	comment?	17	A Air monitoring for asbestos is was a
16	COMMENT:		8
16 17		18	major industry. So with respect to air.
16 17 18	A Sure. Of course.	18 19	major industry. So with respect to air,
16 17 18 19	A Sure. Of course. Q Well, we can look it up if you want.	19	certainly. Soil, certainly. There's been lots
16 17 18 19 20	<ul><li>A Sure. Of course.</li><li>Q Well, we can look it up if you want.</li><li>A No. I remember writing it. It's true.</li></ul>	19 20	certainly. Soil, certainly. There's been lots of work done on that. Water, I don't I don't
16 17 18 19 20 21	<ul> <li>A Sure. Of course.</li> <li>Q Well, we can look it up if you want.</li> <li>A No. I remember writing it. It's true.</li> <li>Q Okay. Are you critical of hand sorting</li> </ul>	19 20 21	certainly. Soil, certainly. There's been lots of work done on that. Water, I don't I don't have a knowledge base relative to water with
16 17 18 19 20	<ul><li>A Sure. Of course.</li><li>Q Well, we can look it up if you want.</li><li>A No. I remember writing it. It's true.</li></ul>	19 20	certainly. Soil, certainly. There's been lots of work done on that. Water, I don't I don't

112 (Pages 442 to 445)

	Page 446		Page 448
1	peculiar industrial application, such as maybe	1	
1 2	outside of an insulation factory, something like	2	Q Cubic meter. My bad. I know three is a cubic.
	that you might find surface water that has a	3	
3 4	little asbestos in it.	4	A Yep. O Is that correct?
5		5	Q Is that correct? A Correct.
6	Q Take a look at page 224. A Okay. Okay. Got it.	6	
7	· · · · · · · · · · · · · · · · · · ·	7	Q Okay. And do you take issue with that?  I know
8	Q You see there's a section on water? A I see it.	8	A No.
9	Q It says, "Asbestos can enter the	9	Q And then it goes on to say in that
10	aquatic environment from both natural and	10	paragraph, "Typical concentrations are about
11	anthropogenic sources."	11	tenfold higher in urban locations and about 1,000
12	A Sure.	12	times higher in close proximity to industrial
13	Q And has been measured in both ground	13	sources of exposure, asbestos mine or factory,
14	and surface water samples; correct?	14	demolition site or improperly protected
15	A Yes.	15	asbestos-containing waste site."
16	MS. O'DELL:	16	That's what IARC says; correct?
17	Would you mind finishing the paragraph?	17	A I think there's lots of data on that.
18	MR. FERGUSON:	18	Q Sorry?
19	Oh, I'm happy I'm happy to read the	19	A I think there's a lot of data on that
20	whole paragraph. I don't want to read the whole	20	that would suggest that that's a correct
21	thing. But it says, "Erosion of asbestos-bearing	21	statement.
22	rock is the principal natural source.	22	Q And just a couple more here. In the
23	Anthropogenic sources include erosion of waste	23	next paragraph, it says, "In indoor air e.g.,
24	piles containing asbestos, erosion of asbestos	24	in homes, schools, and other buildings
	piles containing assessos, crosson or assessos		in nones, senous, and other buildings
	Page 447		Page 449
1	cement pipes, disintegration of	1	measured concentrations of asbestos are in the
2	asbestos-containing roofing materials and	2	range of 30 to 6,000 fibers per cubic meter."
3	industrial wastewater runoff."	3	Correct?
4	MS. O'DELL:	4	A Correct.
			A Correct.
5	Okay.	5	Q So the bottom line is there is a level
5 6	MR. FERGUSON:	1	
	· · · · · · · · · · · · · · · · · · ·	5	Q So the bottom line is there is a level
6	MR. FERGUSON: Q Why don't you go to page 225. A Okay.	5 6	Q So the bottom line is there is a level of background exposure to asbestos for the
6 7 8 9	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called	5 6 7 8 9	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL:  Object to the form.
6 7 8	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"?	5 6 7 8 9	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.
6 7 8 9 10 11	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes.	5 6 7 8 9 10 11	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON:
6 7 8 9 10 11 12	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes. Q And the first sentence there says,	5 6 7 8 9 10 11 12	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON: Q I'm sorry?
6 7 8 9 10 11 12 13	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes. Q And the first sentence there says, "Inhalation of asbestos fibers from outdoor air	5 6 7 8 9 10 11 12 13	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON: Q I'm sorry? A I think that's a correct statement.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes. Q And the first sentence there says, "Inhalation of asbestos fibers from outdoor air and, to a lesser degree, an indoor air is the primary route of exposure for the nonsmoking general population."  Correct? A Correct. Q If you look in the next paragraph, the second sentence says that low levels of asbestos	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON: Q I'm sorry? A I think that's a correct statement. Q I want to talk to you a little bit about your notes that we made reference to earlier. Just I'm not gonna have you read them into the record.  A Okay. Q Thankfully. A Yeah.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes. Q And the first sentence there says, "Inhalation of asbestos fibers from outdoor air and, to a lesser degree, an indoor air is the primary route of exposure for the nonsmoking general population."  Correct? A Correct. Q If you look in the next paragraph, the second sentence says that low levels of asbestos have been measured in outdoor air in rural locations. Typical concentration, 10 fibers per	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON: Q I'm sorry? A I think that's a correct statement. Q I want to talk to you a little bit about your notes that we made reference to earlier. Just I'm not gonna have you read them into the record.  A Okay. Q Thankfully. A Yeah. Q But I just had a few questions on the what I'll hand to you as 3.1. You have
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes. Q And the first sentence there says, "Inhalation of asbestos fibers from outdoor air and, to a lesser degree, an indoor air is the primary route of exposure for the nonsmoking general population." Correct? A Correct. Q If you look in the next paragraph, the second sentence says that low levels of asbestos have been measured in outdoor air in rural locations. Typical concentration, 10 fibers per square meter. Correct?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON: Q I'm sorry? A I think that's a correct statement. Q I want to talk to you a little bit about your notes that we made reference to earlier. Just I'm not gonna have you read them into the record.  A Okay. Q Thankfully. A Yeah. Q But I just had a few questions on the what I'll hand to you as 3.1. You have the letter K in the upper left-hand corner, and
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. FERGUSON: Q Why don't you go to page 225. A Okay. Q And you see there's a section called "Exposure of the General Population"? A Yes. Q And the first sentence there says, "Inhalation of asbestos fibers from outdoor air and, to a lesser degree, an indoor air is the primary route of exposure for the nonsmoking general population."  Correct? A Correct. Q If you look in the next paragraph, the second sentence says that low levels of asbestos have been measured in outdoor air in rural locations. Typical concentration, 10 fibers per	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q So the bottom line is there is a level of background exposure to asbestos for the general population. Correct?  MS. O'DELL: Object to the form.  A I think it's a correct statement.  MR. FERGUSON: Q I'm sorry? A I think that's a correct statement. Q I want to talk to you a little bit about your notes that we made reference to earlier. Just I'm not gonna have you read them into the record.  A Okay. Q Thankfully. A Yeah. Q But I just had a few questions on the what I'll hand to you as 3.1. You have

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	Page 450		Page 452
1	origin" with two question marks. Okay? And	1	A Sorry about that.
2	we'll let Miss O'Dell take a look at it, and then	2	MR. FERGUSON:
3	I'll ask you what is meant by that.	3	Q And my question to you is
4	A Sure. Not a problem.	4	And feel free to look at take your
5	Q Okay. I'm	5	time to look at it if you need to.
6	A I wish I had put dates on these.	6	At the top, it says, "For expert report
7	Q I'm assuming that that is a reference	7	12-29-18." What does that mean? Does that mean
8	to Dr. Krekeler's report. Is that correct?	8	it's well, you tell me what that means. Notes
9	A I think it is.	9	for your expert report?
10	Q Okay.	10	A I turned in my the first version of
11	A I can tell you what what the note	11	my expert report prior to this date. And then
12	means.	12	these are notes about things that need to be
13	Q All right.	13	added since I'm getting the material.
14	A There there are ophiolites	14	Q Okay. Fair enough.
15	associated with the mountain-building process	15	Then 3.8, I'm just trying to figure out
16	that produced the Alps. And, so, ophiolites are	16	generally what that is.
17	ultramafic. So you could have had talc	17	A Sure.
18	occurrences that were similar to those in Vermont	18	Q You don't have to fill me in on all the
19	or you could have had the Val Chisone type, which	19	details but I'm trying to understand what the
20	we know are actually related, to metamorph those	20	purpose of that document is.
21	carbonate rocks. And I I was making really a	21	A Sure.
22	note to myself to go back and take a hard look at	22	Oh, this is something that I did very
23	the Italian talc occurrences and make darn sure	23	early on. When I first was asked by Miss O'Dell
24	that there are no ultramafic rocks associated	24	to look at this, one of the things I did was to
	Page 451		Page 453
1	with Val Chisone.	1	try to track possible talc sources. I wasn't
2	Q Okay.	2	aware of I mean, I knew that there was Montana
3	A And that's all that means.	3	talc being mined. I didn't know at this point
4	Q Could I have that back	4	whether or not Montana talc was being used as a
5	A Sure.	5	cosmetic product, for example.
6	A Sure. Q please?	5 6	cosmetic product, for example.  So this is this is just a page where
6 7	A Sure. Q please? A You bet.	5 6 7	cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc
6	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in</li> </ul>	5 6	cosmetic product, for example.  So this is this is just a page where
6 7	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in Val Chisone?</li> </ul>	5 6 7	cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you.
6 7 8	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in Val Chisone?</li> <li>A They are not shown in the immediate</li> </ul>	5 6 7 8 9	cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure.
6 7 8 9	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in Val Chisone?</li> </ul>	5 6 7 8 9	cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I
6 7 8 9 10 11	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in</li> <li>Val Chisone?</li> <li>A They are not shown in the immediate proximity to those talc deposits.</li> <li>Q Okay.</li> </ul>	5 6 7 8 9 10 11 12	cosmetic product, for example. So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I think seem obvious that you had a Downey depo.
6 7 8 9 10 11 12	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in Val Chisone?</li> <li>A They are not shown in the immediate proximity to those talc deposits.</li> <li>Q Okay.</li> <li>A If they're there, you don't see them on</li> </ul>	5 6 7 8 9 10 11 12 13	cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I think seem obvious that you had a Downey depo. Then you have notes
6 7 8 9 10 11 12 13	<ul> <li>A Sure.</li> <li>Q please?</li> <li>A You bet.</li> <li>Q Are there any ultramafic rocks in Val Chisone?</li> <li>A They are not shown in the immediate proximity to those talc deposits.</li> <li>Q Okay.</li> <li>A If they're there, you don't see them on the map of the deposits.</li> </ul>	5 6 7 8 9 10 11 12 13 14	cosmetic product, for example. So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I think seem obvious that you had a Downey depo. Then you have notes A Right.
6 7 8 9 10 11 12 13 14	A Sure. Q please? A You bet. Q Are there any ultramafic rocks in Val Chisone? A They are not shown in the immediate proximity to those talc deposits. Q Okay. A If they're there, you don't see them on the map of the deposits. Q So you're not aware that they're there.	5 6 7 8 9 10 11 12 13 14	cosmetic product, for example. So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I think seem obvious that you had a Downey depo. Then you have notes A Right. Q out beside page whatever.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Sure. Q please? A You bet. Q Are there any ultramafic rocks in Val Chisone? A They are not shown in the immediate proximity to those talc deposits. Q Okay. A If they're there, you don't see them on the map of the deposits. Q So you're not aware that they're there. You don't see A I don't think that the talc deposits are related to ultramafic rocks. Q I'm sure all this will be very interesting, but I'm not going to take the time to go through each of these. Let me show you 3.6.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	cosmetic product, for example. So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I think seem obvious that you had a Downey depo. Then you have notes A Right. Q out beside page whatever. A Sure. Q So you've made notes on various depositions; correct? A Yes. Q Did you read a transcript of a trial called Herford? A I don't remember it.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Sure. Q please? A You bet. Q Are there any ultramafic rocks in Val Chisone? A They are not shown in the immediate proximity to those talc deposits. Q Okay. A If they're there, you don't see them on the map of the deposits. Q So you're not aware that they're there. You don't see A I don't think that the talc deposits are related to ultramafic rocks. Q I'm sure all this will be very interesting, but I'm not going to take the time to go through each of these.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	cosmetic product, for example. So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it. Q Thank you. A Sure. Q And then there's several pages that I think seem obvious that you had a Downey depo. Then you have notes A Right. Q out beside page whatever. A Sure. Q So you've made notes on various depositions; correct? A Yes. Q Did you read a transcript of a trial called Herford?

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	Page 454		Page 456
1	A What would be a a name, a person's	1	Would you describe for us the
2	name that would be deposed?	2	methodology that you've used in reaching your
3	Q I can't tell you.	3	opinions in this case?
4	A I mean, the I think I've actually	4	A Okay. When when when you first
5	seen the Herford name, but I don't I don't	5	approached me and we discussed the the data
6	know that I've seen a deposition or a transcript.	6	sets that you thought would be available and, you
7	Q Let me show you 3.9. Just let me know	7	know, did I understand mining techniques that
8	what that is. I'm trying to figure out what it	8	might be related to what we were doing and did I
9	is you summarized there.	9	understand the milling processes, did I
10	A Okay.	10	understand the the methodology in testing, you
11	MS. O'DELL:	11	know, I answered affirmatively. So you began to
12	And you're just talking to about	12	supply me with documents.
13	this here? Because there appears to be	13	But based on your original description
14	MR. FERGUSON:	14	of the project, I started doing my own background
15	There are a number of things in there.	15	literature review. And, so, I began to weed that
16	MS. O'DELL:	16	literature review, the knowledge I had with that
17	That the Hicks deposition's reference,	17	review, in with information that I already had in
18	which, of course, would have been in this case,	18	my head relative to talc and asbestos and heavy
19	and some other?	19	metals and the mining. Anyway, I began to
		20	
20 21	MR. FERGUSON:	21	develop a database from which I worked.
22	Right. Yeah.	22	And, so, as you began to give me
	Q The Herford notation, what is that?		information, I began to categorize it based on
23	MS. O'DELL:	23 24	the type of information. Is it asbestos sources?
24	Right in the center of that page.	24	Is it mining? In other words, what does that
	Page 455		Page 457
1	A Uh-huh. I don't know. I apparently	1	that document pertain to?
2	didn't use it at all. When I read the	2	And, in the end, I ended up with maybe
3	deposition, apparently Hicks mentioned this on	3	six or eight headings that that I thought I
4	page 102, and I made a note to that effect.		
5		4	
		4 5	could categorize information in.
6	I see here that it has x-ray refraction		could categorize information in.  And, so, I began to look to look at
6	I see here that it has x-ray refraction mentioned. But I don't I don't know. I	5	could categorize information in.  And, so, I began to look to look at the material that I had put in each category and
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	Page 458		Page 460
1	documents here, and this is not half of the	1	Dr. Cook?
2	documents that I've reviewed so far. And	2	MR. FROST:
3	and and I hope to continue reviewing documents	3	Oh, yes. Absolutely. That's fine.
4	that will then add to the database from which my	4	MS. O'DELL:
5	opinions will be supported.	5	Q And you'll see I believe it's on
6	Q Why did you you cited some geologic	6	page 993, but that's where the
7	references in articles. I think one of them was	7	A Right.
8	Van Gosen. I think you were asked about	8	Q Vermont description occurs.
9	Chidester earlier today, as well as some	9	A Sure.
10	references that related to not only Vermont talc	10	Q Would that description of the Vermont
11	deposits but also Italian talc. What was the	11	talc deposits be relevant and applicable to the
12	purpose of citing those references?	12	Vermont mines that were used to source
13	MR. FROST:	13	Johnson & Johnson's talcum powder products?
14	Objection to form.	14	A Sure. It's a it's a brief
15	A Yeah. Well, the Vermont papers had to	15 16	description of the the talc district as a
16	do with setting the stage for the geologic	17	whole, and from that you can begin to to put
17	framework within which the ultramafic rocks	18	individual deposits. But this is just a a general background paper.
18	occurred. So they weren't intended to point out	19	
19	any character events, any specific mine. It was	20	Q Okay. In the methodology, have you you've described, is that methodology you've used
20	to to give the interested reader some way to	21	at other points in in your career?
21	gain background information.	22	MR. FROST:
22	And the same is really true about the	23	Objection to form.
23	Italian talc deposits. I I gave those	24	A Yes. And, in fact, that's that's
24	references that are really general geologic		A Tes. And, in fact, that's that's
	Page 459		Page 461
1	information so that there was a foundation upon	1	the standard method of operation. You're
2	rybiob the more detailed information could be		
	which the more detailed information could be	2	presented with a problem. I go to the library
3	be anchored.	3	presented with a problem. I go to the library and and get all the material I can get and
	be anchored. Q Uh-huh. Would it have been would it		
3 4 5	be anchored.  Q Uh-huh. Would it have been would it be your normal practice as a professional	3 4 5	and and get all the material I can get and read up on it. And, then, in the case of the talc litigation here, you you have to treat
3 4 5 6	be anchored.  Q Uh-huh. Would it have been would it be your normal practice as a professional geologist as well as a professor to refer to and	3 4 5 6	and and get all the material I can get and read up on it. And, then, in the case of the talc litigation here, you you have to treat the documents that you're being given as data.
3 4 5 6 7	be anchored.  Q Uh-huh. Would it have been would it be your normal practice as a professional geologist as well as a professor to refer to and cite general geological references when	3 4 5 6 7	and and get all the material I can get and read up on it. And, then, in the case of the talc litigation here, you you have to treat the documents that you're being given as data. And the data you use as you would in any
3 4 5 6 7 8	be anchored.  Q Uh-huh. Would it have been would it be your normal practice as a professional geologist as well as a professor to refer to and cite general geological references when describing a specific deposit?	3 4 5 6 7 8	and and get all the material I can get and read up on it. And, then, in the case of the talc litigation here, you you have to treat the documents that you're being given as data. And the data you use as you would in any scientific investigation. You use it to either
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	Page 462		Page 464
1	geologist?	1	questions on a couple of different topics.
2	MR. FROST:	2	First, let me show you or direct your attention
3	Objection.	3	back to the deposition of Patrick Downey.
4	A Yes, in fact, I've done scoping studies	4	A Sure.
5	for Kinross and one other company within the last	5	Q You were asked some questions by
6	few years. And this is pretty much what they	6	Mr. Ferguson about the Downey deposition. And,
7	what they're looking for is a a compilation of	7	if I recall correctly, the suggestion was made
8	all information available on a particular topic	8	that Mr. Downey did not testify that Imerys
9	or area put together in a report. And the	9	certified that the talc powder sold to
10	working hypothesis for a mining company is, in	10	Johnson & Johnson was asbestos-free. Do you
11	this area, given all the data that's available to	11	remember those questions?
12	you, would you recommend coming in and spending a	12	A Yes.
13	million bucks looking for a new mineral deposit?	13	MR. FERGUSON:
14	And, so, from that standpoint, it's	14	Object to the form.
15	exactly what what I did here. I mean, it's	15	A I remember the questions.
16	the same general intellectual exercise.	16	MS. O'DELL:
17	MS. O'DELL:	17	Q In you know, direct your attention
18	Q As a part of of of your	18	to page 508 of the transcript and to line number
19	methodology outside litigation, would you	19	15.
20	routinely rely on testing data as a part of that	20	A 508?
21	process?	21	Q 506. Excuse me. I'm sorry. 506, line
22	A Would I would I be doing the	22	15.
23	testing? Sometimes.	23	A Okay.
24	Q No, sir. Just but rely on data,	24	Q And the question was asked to
	Page 463		Page 465
1		1	
1 2	Page 463 testing data, in regard to your process of A Sure.	1 2	Mr. Downey: "Why were you not able to give a
	testing data, in regard to your process of A Sure.		Mr. Downey: "Why were you not able to give a true a simple true-or-false answer to the
2	testing data, in regard to your process of A Sure. Q of evaluating.	2	Mr. Downey: "Why were you not able to give a
2	testing data, in regard to your process of A Sure. Q of evaluating. A Of course. In fact, that's one of	2 3	Mr. Downey: "Why were you not able to give a true a simple true-or-false answer to the question of asbestos-free?"
2 3 4	testing data, in regard to your process of A Sure. Q of evaluating.	2 3 4	Mr. Downey: "Why were you not able to give a true a simple true-or-false answer to the question of asbestos-free?"  Answer: "Well, I was trying to be
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2 3 4 5 6 7	testing data, in regard to your process of A Sure. Q of evaluating. A Of course. In fact, that's one of one of the problems is waiting for data to come in from the lab. Q That's right.	2 3 4 5 6 7	Mr. Downey: "Why were you not able to give a true a simple true-or-false answer to the question of asbestos-free?"  Answer: "Well, I was trying to be scientifically accurate, perhaps hypertechnical, but it was the conjunction of the terms 'certified' and 'asbestos-free.' That's not the
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	Page 466		Page 468
1	the to the side.	1	documents that you intended to refer to?
2	A Do you want it or not?	2	A Yes. I almost think I had this
3	Q Just put it there. Thanks so much.	3	document that has a different Bates number on it.
4	If you will now turn to page 5 of your	4	But, yeah, this this is that's it.
5	report.	5	Q Okay. Thank you.
6	A Okay.	6	MR. FROST:
7	Q And, at the bottom of the page, in the	7	Can I see the document?
8	last paragraph on page 5, it's paragraph	8	MS. O'DELL:
9	beginning "in 2003." And on the second sentence	9	Q All right. In
10	of that paragraph, it says, "Chinese talc	10	Now, I ask if I could ask you,
11	occurrences included in those" excuse me	11	Doctor, to pull out of your the stack over
12	"including those in the Guangxi province have	12	there and maybe Lois will help us Exhibit
13	been described in certain Imerys documents."	13	14.
14	And then several are listed there.	14	A Okay. Getting close.
15	A Right.	15	Q Okay.
16	MR. FROST:	16	A Okay. Got it.
17	Objection to form.	17	Q And Exhibit 14 refers to the subject
18	MS. O'DELL:	18	is characterization of Guan of the Guangxi 1
19	Q And I think Johnson & Johnson counsel	19	crude and Cimpact 710 product.
20	showed you several documents, and I think you	20	A Right.
21	indicated that there was an error in the Bates	21	Q Do you remember the discussion with
22	reference.	22	Johnson & Johnson counsel on that document?
23	A Right. There is.	23	A Sure.
24	Q Let me show you what I'm marking as	24	Q Let me ask you to turn to, while you're
	Page 467		Page 469
1	Exhibit 32 to your deposition.	1	holding the document, Doctor maybe not put it
2	(DEPOSITION EXHIBIT NUMBER 32		
	(BEI OSITIOT ENHIBIT TOTALER 32	2	too far away from you to page 8 of of your
3	WAS MARKED FOR IDENTIFICATION.)	2 3	too far away from you to page 8 of of your report. And, at the bottom of page 8 of your
3 4	· · · · · · · · · · · · · · · · · · ·		
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4	WAS MARKED FOR IDENTIFICATION.) MS. O'DELL:	3 4	report. And, at the bottom of page 8 of your report, you include a sentence, "It is known that
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	Page 470		Page 472
1	ore order is being handled per the negotiated	1	A I think it does.
2	contract parameters. Meeting the ore at the port	2	Q And is is that at least one of the
3	will never allow us to control the quality and	3	reasons that you referenced that publication in
4	chemistry of the crude we are ordering."	4	your report?
5	Is that did I read that correctly?	5	A It is.
6	A Right. You did.	6	Q Let me ask you, Doctor, to put that
7	Q Is that what you were referring to in	7	aside for a moment.
8	your report?	8	You were asked a series of questions
9	A Uh-huh. It is.	9	regarding whether you would publish your expert
10	Q Thank you, Doctor. Yeah.	10	report in the peer-reviewed literature. I think
11	You also, still speaking of China, were	11	your response was no. Why did you respond to
12	asked about the sampling method that was used in	12	that question in the negative?
13	relation to Chinese ore once it reached	13	MR. FROST:
14	reached the port in Houston.	14	Objection to form.
15	A Correct.	15	A The to start with, as with any work
15 16	MR. FROST:	16	like this, there is a confidentiality agreement
		17	that comes in very quickly. And publishing any
17	Objection to form.	18	part of this would would violate the agreement
18	MS. O'DELL:	19	that that I signed.
19	Q Let me ask you to look at what I'm	20	The part of the problem with this is
20	marking as Exhibit 33.	21	that if you if you try to publish something in
21	(DEPOSITION EXHIBIT NUMBER 33	22	a peer-reviewed journal, how is a peer-reviewer
22	WAS MARKED FOR IDENTIFICATION.)	23	ever gonna be able to to to evaluate a
23	MS. O'DELL:	24	report like this? He's not gonna have access to
24	Q And it's Imerys 036949.		report line unis. The short gomin have decess to
	Page 471		Page 473
1	Page 471  Is Exhibit 33 the sampling protocol	1	Page 473 any any of the materials. So it wouldn't make
1 2		1 2	
	Is Exhibit 33 the sampling protocol		any any of the materials. So it wouldn't make
2	Is Exhibit 33 the sampling protocol regarding Chinese ore that you were referring to?	2	any any of the materials. So it wouldn't make sense. It would be off limits.  MS. O'DELL:  Q Is that because many of the materials,
2	Is Exhibit 33 the sampling protocol regarding Chinese ore that you were referring to?  A Yes.	2 3	any any of the materials. So it wouldn't make sense. It would be off limits.  MS. O'DELL:
2 3 4	Is Exhibit 33 the sampling protocol regarding Chinese ore that you were referring to?  A Yes.  Q Let me ask you, Dr. Cook	2 3 4	any any of the materials. So it wouldn't make sense. It would be off limits.  MS. O'DELL:  Q Is that because many of the materials,
2 3 4 5	Is Exhibit 33 the sampling protocol regarding Chinese ore that you were referring to?  A Yes.  Q Let me ask you, Dr. Cook I'm gonna put that right here for the	2 3 4 5	any any of the materials. So it wouldn't make sense. It would be off limits.  MS. O'DELL:  Q Is that because many of the materials, documents that you've cited in your report, those
2 3 4 5 6	Is Exhibit 33 the sampling protocol regarding Chinese ore that you were referring to?  A Yes.  Q Let me ask you, Dr. Cook I'm gonna put that right here for the moment. And on an exhibit marked I think it	2 3 4 5 6	any any of the materials. So it wouldn't make sense. It would be off limits.  MS. O'DELL:  Q Is that because many of the materials, documents that you've cited in your report, those would be subject to a confidentiality order and
2 3 4 5 6 7	Is Exhibit 33 the sampling protocol regarding Chinese ore that you were referring to?  A Yes.  Q Let me ask you, Dr. Cook I'm gonna put that right here for the moment. And on an exhibit marked I think it was exhibit yes 21. Let me hand it to you.	2 3 4 5 6 7	any any of the materials. So it wouldn't make sense. It would be off limits.  MS. O'DELL:  Q Is that because many of the materials, documents that you've cited in your report, those would be subject to a confidentiality order and it would be a violation of that order?
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	Page 474		Page 476
1	MR. FROST:	1	Objection. Move to strike answer as
2	Objection to form.	2	nonresponsive and speculative.
3	A That is my understanding, based on the	3	MS. O'DELL:
4	description of the samples in the cited	4	Oppose the motion.
5	references.	5	Q The the and, in this table for
6	MS. O'DELL:	6	nickel as well as the table that is compiled for
7	Q All right. And, in fact, number 3 in	7	chromium and cobalt, does that include values or
8	the chart, the description is baby powder.	8	data from annual samples that were provided to
9	Correct?	9	Johnson & Johnson?
10	A Correct.	10	A Yes.
11	Q And in that that has, I think, three	11	MR. FROST:
12	samples that were tested. And were the findings	12	Objection.
13	1500 parts per million, 1480 parts per million,	13	MS. O'DELL:
14	and 1500 parts per million, respectively?	14	
15	MR. FROST:		Q And is it your understanding, based on
16	Objection to form.	15	your review of the data, that that would be
17	A That's correct.	16	finished product?
18	MS. O'DELL:	17	A Yes. Finished in the sense that it's
19	Q And would it be fair to say that a	18	gonna go toward packaging now when they're done
20	finding of greater than, you know, 1400 or 1500	19	with the processing.
21	parts per million, would it be fair to say that	20	Q Okay. Let me ask you to turn to page
22	that is an extremely high level of of nickel?	21	32 of your report that relates to your discussion
23	MR. FERGUSON:	22	of of chromium. And, Dr. Cook, let me ask you
24		23	a general question about the test data that's
24	Objection for form.	24	reported in this chart.
		+	
	Page 475		Page 477
1	Page 475 MR. FROST:	1	Page 477  In each instance, do the chromium
1 2	MR. FROST:	1 2	
2	MR. FROST: Objection to form. Also, object to the		In each instance, do the chromium numbers that were seen in these test results
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2 3 4	MR. FROST:  Objection to form. Also, object to the question since he's already admitted he's not qualified to answer that.  THE WITNESS:	2 3 4	In each instance, do the chromium numbers that were seen in these test results exceed the Johnson & Johnson specification upper limit of normal for chromium by, you know, orders of magnitude?
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	Page 478		Page 480
1	MR. FROST:	1	fibrous talc.
2	Objection to form.	2	Q And, therefore, to the degree that
3	A No. I don't think it was would be	3	fibrous talc was mined from the ore body and
4	possible.	4	and made a part of the ore, then is it your
5	MS. O'DELL:	5	opinion that the beneficiation process would not
6	Q Similarly, in relation to cobalt, was	6	remove the fibrous talc, you know, from the
7	there any part of the beneficiation process at	7	product?
8	the West Windsor mill in Vermont that would have	8	A I don't I don't see how it could.
9	addressed high levels of cobalt?	9	You're referring to West Windsor;
10	MR. FROST:	10	right?
11	Objection.	11	Q Yes.
12	A There's a possibility that if all of	12	A I don't see how it could.
13	the cobalt was contained in cobaltite, which is a	13	Q Would the beneficiation process at
14	cobalt arsenic that's a dense mineral it	14	West Windsor have been effective for purposes of
15	might sink in a flotation cell and be removed	15	removing high levels of arsenic?
16	that way. But the numbers that I've got are on	16 17	MR. FROST:
17	the finished product, not on the not on ore		Objection to form.
18	going in.	18 19	A I think it's possible that some arsenic could have come out in the sink fraction of the
19	MS. O'DELL:	20	flotation cells.
20	Q And that would suggest that, in fact,	21	MS. O'DELL:
21	the beneficiation process did not affect it?	22	Q If asbestos was mined and removed
22	A It's probably	23	during the mining process, is there anything in
23	MR. FROST:	24	the beneficiation process at West Windsor that
24	Objection to the form.		the beneficiation process at west windsor that
	Page 479		Page 481
1	MR. FERGUSON:	1	would have removed asbestos as part of the
2	Objection to the form.	2	processing?
3	A That's correct.	3	A Well, there there are reagents that
4	MS. O'DELL:	4	could suppress chrysotile. I don't know of any
5	Q Let me ask it a different way to	5	that would suppress amphibole asbestos. But I
6	addusaa 41aa		
U	address these.	6	didn't see anything in the documents I was
7	Based on the numbers, the test data	7	supplied that would indicate that there was an
7 8	Based on the numbers, the test data that you reviewed regarding finished talc powder,		supplied that would indicate that there was an attempt made or that there was any kind of design
7 8 9	Based on the numbers, the test data that you reviewed regarding finished talc powder, is it your opinion that the beneficiation process	7 8 9	supplied that would indicate that there was an attempt made or that there was any kind of design that was was pointed toward removal of of
7 8 9	Based on the numbers, the test data that you reviewed regarding finished talc powder, is it your opinion that the beneficiation process at West Windsor was not affected to remove high	7 8 9 10	supplied that would indicate that there was an attempt made or that there was any kind of design that was was pointed toward removal of of asbestos.
7 8 9 10 11	Based on the numbers, the test data that you reviewed regarding finished talc powder, is it your opinion that the beneficiation process at West Windsor was not affected to remove high levels of cobalt?	7 8 9 10 11	supplied that would indicate that there was an attempt made or that there was any kind of design that was was pointed toward removal of of asbestos.  Q You were asked a number of questions
7 8 9 10 11	Based on the numbers, the test data that you reviewed regarding finished talc powder, is it your opinion that the beneficiation process at West Windsor was not affected to remove high levels of cobalt?  MR. FROST:	7 8 9 10 11 12	supplied that would indicate that there was an attempt made or that there was any kind of design that was was pointed toward removal of of asbestos.  Q You were asked a number of questions about the chart in your report addressing
7 8 9 10 11 12	Based on the numbers, the test data that you reviewed regarding finished talc powder, is it your opinion that the beneficiation process at West Windsor was not affected to remove high levels of cobalt?  MR. FROST:  Objection.	7 8 9 10 11 12 13	supplied that would indicate that there was an attempt made or that there was any kind of design that was was pointed toward removal of of asbestos.  Q You were asked a number of questions about the chart in your report addressing positive test results for asbestos. Do you
7 8 9 10 11 12 13	Based on the numbers, the test data that you reviewed regarding finished talc powder, is it your opinion that the beneficiation process at West Windsor was not affected to remove high levels of cobalt?  MR. FROST:  Objection.  A I don't think it could.	7 8 9 10 11 12 13 14	supplied that would indicate that there was an attempt made or that there was any kind of design that was was pointed toward removal of of asbestos.  Q You were asked a number of questions about the chart in your report addressing positive test results for asbestos. Do you recall those questions?
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	Page 482		Page 484
1	contained in the chart?	1	Q Earlier today you were asked a lot of
2	A No.	2	questions by counsel, and a lot of suggestions
3	Q And, generally speaking, if you know,	3	were made that somehow documents, you know, were
4	how many other positive test results for asbestos	4	withheld by plaintiffs' counsel. Do you recall
5	are contained in a chart besides the five that he	5	that?
6	pointed out?	6	A Yes.
7	A Oh, there's over a hundred.	7	MR. FROST:
8	Q And are those test results supportive	8	Objection to form.
9	of your opinion that the talc deposits in Italy	9	MS. O'DELL:
10	and Vermont contained fibrous asbestos	10	Q At the beginning of your engagement in
11	asbestos mills?	11	this case, did you provide a list of of
12	MR. FROST:	12	documents, really document requests, that you
13	Objection to form.	13	asked that those documents be searched for and,
14	A The published information and some of	14	to the degree made available by defendants,
15	the unpublished reports on Italy suggested there	15	provided to you?
16	could be some in that talc. And, of course, I've	16	A Yes.
17	got lots of data on Vermont that would suggest	17	
18	that.	18	Q Do you have any reason to believe that that documents were withheld from you
19	MS. O'DELL:		
20	Q You were asked questions about	19	in in rendering your opinions?
21	selective mining today, and	20	MR. FROST:
22	Before I do that	21	Objection to form. Misstates
23	Excuse me. Also in regard to the	22	questioning and testimony.
24	fibrous talc chart, I think the counsel called	23	A I have no reason to believe that
	10.000 (110 0.1111), 2 111111 (110 0.01115), 2 11110	24	that anybody has withheld anything. You know,
	Page 483		Page 485
1	Page 483 into question maybe one of the line items or the	1	Page 485 my my approach is everybody's on the up and
1 2	into question maybe one of the line items or the entries	2	my my approach is everybody's on the up and up.
	into question maybe one of the line items or the	1	my my approach is everybody's on the up and
2	into question maybe one of the line items or the entries	2	my my approach is everybody's on the up and up.
2	into question maybe one of the line items or the entries Two. Excuse me.	2 3	my my approach is everybody's on the up and up. MS. O'DELL:
2 3 4	into question maybe one of the line items or the entries  Two. Excuse me.  two of the entries in the fibrous talc chart that you have in your report.  A Right.	2 3 4	my my approach is everybody's on the up and up. MS. O'DELL: Q Do you did you see, in reaching your
2 3 4 5	into question maybe one of the line items or the entries  Two. Excuse me.  two of the entries in the fibrous talc chart that you have in your report.	2 3 4 5	my my approach is everybody's on the up and up. MS. O'DELL: Q Do you did you see, in reaching your opinions in regard to asbestos, did you see not
2 3 4 5 6	into question maybe one of the line items or the entries  Two. Excuse me.  two of the entries in the fibrous talc chart that you have in your report.  A Right.	2 3 4 5 6	my my approach is everybody's on the up and up. MS. O'DELL: Q Do you did you see, in reaching your opinions in regard to asbestos, did you see not only positive test results but did you also look
2 3 4 5 6 7	into question maybe one of the line items or the entries  Two. Excuse me.  two of the entries in the fibrous talc chart that you have in your report.  A Right.  Q Is there any data that you've been	2 3 4 5 6 7	my my approach is everybody's on the up and up. MS. O'DELL: Q Do you did you see, in reaching your opinions in regard to asbestos, did you see not only positive test results but did you also look at negative test results? A Yes, plenty.
2 3 4 5 6 7 8	into question maybe one of the line items or the entries  Two. Excuse me.  two of the entries in the fibrous talc chart that you have in your report.  A Right.  Q Is there any data that you've been presented today or question that would data or	2 3 4 5 6 7 8	my my approach is everybody's on the up and up. MS. O'DELL: Q Do you did you see, in reaching your opinions in regard to asbestos, did you see not only positive test results but did you also look at negative test results? A Yes, plenty.
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	Page 486		Page 488
1	powder products.	1	Objection to form.
2	MR. FROST:	2	MR. FERGUSON:
3	Objection to form.	3	Objection.
4	MS. O'DELL:	4	A I wouldn't. I don't see anything in
5	Q Do you recall that	5	this photograph that would suggest that there was
6	A Yes.	6	a selection of higher grade material versus lower
7	Q testimony?	7	grade.
8	What's the basis for your opinion that	8	MR. FROST:
9	appropriate selective mining practices were not	9	Move to strike answer as speculative.
10	used?	10	MS. O'DELL:
11	A Well, to start with, they're not	11	Q Is your answer speculative?
12	described in any of the documents. And and	12	MR. FROST:
13	the the few photographs that we've got of the	13	Objection to form.
14	mines don't suggest selective mining. It it	14	A It's based on my observation of the
15	just isn't there.	15	photograph. It's conclusion.
16	Q And if you'll look on page 8, is	16	MS. O'DELL:
17	does is the photograph on page 8 one of the	17	Q And, in reaching that conclusion, have
18	the photographs that you considered in reaching	18	you used your, you know, your special expertise
19	your opinion regarding selective mining?	19	as a mining engineer and, you know, professor of
20	A Yes.	20	geology that teaches mining practices?
21	Q And and describe for us, Dr. Cook,	21	MR. FROST:
22	why that photograph does not depict appropriate	22	Objection to form.
23	selective mining techniques.	23	A Yes.
24	MR. FROST:	24	MS. O'DELL:
	Page 487		Page 489
1	Objection to form.	1	O Vou wood called a much or of acceptions
_		1 -	Q You were asked a number of questions
2	A Okay. This one is fairly simple.	2	regarding samples in the sampling process that
3	-		
	A Okay. This one is fairly simple.	2	regarding samples in the sampling process that
3	A Okay. This one is fairly simple. You've got a single loader, but you've got three	2 3	regarding samples in the sampling process that was utilized over the course of of the I
3 4	A Okay. This one is fairly simple. You've got a single loader, but you've got three piles of broken rock that would suggest that he's gonna be loading ore from material derived from	2 3 4	regarding samples in the sampling process that was utilized over the course of of the I guess more than 50 years A Right.
3 4 5	A Okay. This one is fairly simple. You've got a single loader, but you've got three piles of broken rock that would suggest that he's gonna be loading ore from material derived from three separate shots, and these — these shot	2 3 4 5	regarding samples in the sampling process that was utilized over the course of of the I guess more than 50 years A Right.  Q that we've discussed today.
3 4 5 6	A Okay. This one is fairly simple. You've got a single loader, but you've got three piles of broken rock that would suggest that he's gonna be loading ore from material derived from	2 3 4 5 6	regarding samples in the sampling process that was utilized over the course of of the I guess more than 50 years A Right.  Q that we've discussed today.  Quickly, Doctor, just in a setting like the ones
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Okay. This one is fairly simple. You've got a single loader, but you've got three piles of broken rock that would suggest that he's gonna be loading ore from material derived from three separate shots, and these — these shot piles are very close to each other. And there's no indication here at all that this has anything to do with selective mining. I mean, the only — the only way this is selective mining is if everything we see in the photograph that's broken ore is good ore. We're gonna mine all of it. But — but this is not what I would expect to see. MS. O'DELL: Q Is — is — based on your knowledge of the geology that —  Let me strike that.  Based on your review of the core logs in — that have been produced in this case regarding the Vermont mines, would you expect in a picture like this that all the — the rocks	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	regarding samples in the sampling process that was utilized over the course of of the I guess more than 50 years  A Right.  Q that we've discussed today.  Quickly, Doctor, just in a setting like the ones described, particularly in Vermont, is a monthly composite sample representative?  MR. FROST:  Objection to form.  A It wouldn't be to me.  MS. O'D'ELL:  Q Why?  A Because  And and we can use arsenic as an example. We know that there were there were some high arsenic ores that went to the West Windsor mill.  Suppose you had one day's run at Windsor mill that had an arsenic value of 10 parts per million. That exceeds the acceptable
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Okay. This one is fairly simple. You've got a single loader, but you've got three piles of broken rock that would suggest that he's gonna be loading ore from material derived from three separate shots, and these — these shot piles are very close to each other. And there's no indication here at all that this has anything to do with selective mining. I mean, the only — the only way this is selective mining is if everything we see in the photograph that's broken ore is good ore. We're gonna mine all of it. But — but this is not what I would expect to see. MS. O'DELL: Q Is — is — based on your knowledge of the geology that — Let me strike that. Based on your review of the core logs in — that have been produced in this case regarding the Vermont mines, would you expect in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	regarding samples in the sampling process that was utilized over the course of of the I guess more than 50 years  A Right.  Q that we've discussed today.  Quickly, Doctor, just in a setting like the ones described, particularly in Vermont, is a monthly composite sample representative?  MR. FROST:  Objection to form.  A It wouldn't be to me.  MS. O'DELL:  Q Why?  A Because  And and we can use arsenic as an example. We know that there were there were some high arsenic ores that went to the West Windsor mill.  Suppose you had one day's run at Windsor mill that had an arsenic value of 10

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	KODEL CO	T	FII.D.
	Page 490		Page 492
1	and then go into a silo, and, in that silo,	1	your review of the core logs that have been
2	there's gonna be a layer that is represented by	2	produced in litigation, was there evidence in
3	that product.	3	those core logs of the presence of fibrous talc?
4	Let's say the next day you've got	4	A Fibrous talc, yes, is was mentioned
5	perfect talc, hundred percent talc, no arsenic at	5	in some of the core logs.
6	all. Okay. That's gonna go in and it's gonna	6	Q And was there also references to the
7	sit on top of the layer of out-of-spec talc.	7	presence of amphiboles?
8	Well, if all you have is a daily	8	A Of amphiboles?
9	sample, then if you've got one that's 10 parts	9	Q Yes.
10	per million arsenic, had you analyzed it that	10	A Oh, yeah, sure.
11	day, and the the other 29 or 30 samples are	11	Q And and, in some of those cases,
12	one part per million arsenic, then your composite	12	were were the presence of fibrous amphiboles
13	at the end of the month is gonna be in spec, but	13	noted?
14	you're gonna have some talc in that silo that	14	A Yes.
15	isn't.	15	Q Let me ask you, in regard to asbestos
16	And that's my objection to the way	16	testing, I think it was you referenced a
17	compositing is done. I think it's definitely	17	document in your report regarding a testing
18	something that can be done in some situations,	18	procedure where samples were tested every six
19	but I think here it's it's not a good idea.	19	months for asbestos in in Vermont. Do you
20	MR. FROST:	20	recall that?
21	Move to strike answer as speculative.	21	A Yes.
22	MS. O'DELL:	22	Q And would sampling and testing would
23	Q Is that is that based on	23	a six-month sample for talc
24	A That is not a speculation. That is a	24	Strike that.
	Page 491		Page 493
1	statement of fact.	1	Let me ask you, is that a
2	MR. FROST:	2	representative way to test talc powder for
3	Move to strike nonresponsive answer.	3	asbestos?
4	MS. O'DELL:	4	MR. FROST:
5	Q Is that based on your evaluation of the	5	Objection to form.
6	variability of the geology of the deposits in	6	A A six-month composite?
7	Vermont?	7	MS. O'DELL:
8	MR. FROST:	8	Q Yes.
9	Objection to form.	9	A Well, I wouldn't be happy with it.
10	A Yes. And we already know there's	10	Q Why?
11	variation, and I just used arsenic as a good	11	A Because the sample that's actually run
12	example. Because if you look at the Hamm mine,	12	weighs less than a gram, and you're you're
13	that's the one mine that we have some good	13	trying to come up with a way to validate the fact
14	drilling numbers throughout the pit. Clearly	14	that that less than a gram of material is is
15	shows that there are areas of the mine that are	15	gonna be representative of perhaps a thousand
16	high arsenic, way out of spec	16	tons of ore, 2,000 tons. It's it's very hard
17	No. I'm sorry. It was the Rainbow	17	to imagine that you can show that it would be.
18	mine.	18	Q Under any mathematical model, would
19	And then there are areas in the mine	19	that small of a sample that's tested be
	that are great.	20	representative of tens of thousands of tons of
20	that are great.	1	•
20 21	MS. O'DELL:	21	ore?
	MS. O'DELL:	21 22	ore? MR. FROST:
21	MS. O'DELL:		
21 22	MS. O'DELL: Q Uh-huh. And in your in your	22	MR. FROST:

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	Page 494		Page 496
1	impossible. There's some things that you could	1	I want to talk about that. Okay?
2	do to move it along toward the	2	A Sure.
3	representativeness, but I don't think they were	3	Q And remind me, which mine was that at?
4	done.	4	A Okay. That one was Argonaut, that
5	MS. O'DELL:	5	photograph was. But we've got some in the back
6	Q Are you are your opinions in this	6	that are I think there's a Hamm mine picture
7	case contained in your report that's dated	7	possibly in there.
8	January 22nd, 2019, as well as your deposition	8	Q All right. So with regard to the
9	that you've given here today?	9	Argonaut mine and your conclusion that that
10	A Are they	10	appropriate selective mining procedures were not
11	Q As well as the deposition?	11	being carried out, how many photographs did you
12	A No. What was the first part of the	12	look at?
13	question?	13	A I looked at everything we were given.
14	Q Are your opinions in this case	14	And it's it's only a handful, not
15	contained in your	15	Q Well, and does a handful mean five or
16	A Oh, are they contained? Sure. Of	16	less?
17	course.	17	A It's probably more than five but less
18	Q Let me finish.	18	than ten.
19	amended report that's dated January	19	Q Okay. So so somewhere between five
20	22nd, 2019, as well as your deposition that	20	and ten photographs you looked at. Correct?
21	you've given here today?	21	A Well, I also looked at Google Earth,
22	A Yes.	22	which, you know, has its own, you know, set of
23	Q All right. I have nothing further.	23	photographs that you can look at.
24	Thank you, Doctor.	24	Q All right. And how many Google Earth
	main you, Boctor.		2 This right. That now many Google Enter
	Page 495		Page 497
1	MR. FROST:	1	photographs did you look at?
2	I'd just like two minutes. Actually,	2	A Well, it depends. You know, they have
3	no. You guys, why don't you guys stay here? I	3	
4			
4	think we'll be quick. I'll take Mr. Ferguson	4	I don't remember how many different dates there
5	think we'll be quick. I'll take Mr. Ferguson outside.	4 5	I don't remember how many different dates there
5	outside.	5	I don't remember how many different dates there were of the Ludlow area. But there were there
5 6	outside. VIDEOGRAPHER:	5 6	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.
5 6 7	outside. VIDEOGRAPHER: Going off the record.	5 6 7	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the
5 6 7 8 9	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.)	5 6 7 8	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.
5 6 7 8 9	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER:	5 6 7 8 9	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?
5 6 7 8 9 10	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is	5 6 7 8 9	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean,
5 6 7 8 9 10 11	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m.	5 6 7 8 9 10 11	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.
5 6 7 8 9 10 11 12	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON:	5 6 7 8 9 10 11 12	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.
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5 6 7 8 9 10 11 12 13 14	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry.	5 6 7 8 9 10 11 12 13 14	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about
5 6 7 8 9 10 11 12 13 14 15	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any	5 6 7 8 9 10 11 12 13 14	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective mining.
5 6 7 8 9 10 11 12 13 14 15 16 17	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any questions. Right, Jack?	5 6 7 8 9 10 11 12 13 14 15	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective
5 6 7 8 9 10 11 12 13 14 15 16 17	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any questions. Right, Jack? MR. FROST: That's correct.	5 6 7 8 9 10 11 12 13 14 15 16 17	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective mining.  If you look at the photographs that I
5 6 7 8 9 10 11 12 13 14 15 16 17 18	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any questions. Right, Jack? MR. FROST: That's correct. EXAMINATION	5 6 7 8 9 10 11 12 13 14 15 16 17 18	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective mining.  If you look at the photographs that I Q I don't think I I don't have a
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any questions. Right, Jack? MR. FROST: That's correct. EXAMINATION BY MR. FERGUSON:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective mining.  If you look at the photographs that I Q I don't think I I don't have a question on the table, but
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	outside.  VIDEOGRAPHER: Going off the record. (OFF THE RECORD.)  VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any questions. Right, Jack? MR. FROST: That's correct. EXAMINATION BY MR. FERGUSON: Q Okay. Just very briefly, Dr. Cook.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I don't remember how many different dates there were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective mining.  If you look at the photographs that I Q  I don't think I I don't have a question on the table, but A  Oh. I thought you did, but
5 6 7 8	outside. VIDEOGRAPHER: Going off the record. (OFF THE RECORD.) VIDEOGRAPHER: We're back on the record. The time is 7:10 p.m. MR. FERGUSON: I don't think Mr Oh, I'm sorry. I don't think Mr. Frost has any questions. Right, Jack? MR. FROST: That's correct. EXAMINATION BY MR. FERGUSON:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	were of the Ludlow area. But there were there were four or five.  Q Okay. So do you have copies of the A No. I didn't print them.  Q photographs?  A I didn't save them. But, I mean, they're easy to go back to and get.  Q Okay.  A And I'd you know, I'd be more than happy to tell you why I made the comment about couldn't see the evidence of the selective mining.  If you look at the photographs that I Q I don't think I I don't have a question on the table, but

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	Page 498		Page 500
1	photographs.	1	It's mined out.
2	A Oh, okay.	2	MS. O'DELL:
3	Q So between five and ten photographs	3	Objection to form.
4	that you were provided that you looked at.	4	MR. FERGUSON:
5	A Correct.	5	Q Excuse me?
6	Q Correct?	6	A It's mined out.
7	A Yes.	7	Q Okay.
8	Q And then some Google Earth	8	A And if you're looking at a 2018
9	photographs	9	photograph, the material that was being mined in,
10	A Google Earth.	10	say, 1995, I mean, you're looking at a part of a
11	Q that you you haven't shared with	11	hole in the ground.
12	us. Correct?	12	Q Well, let's focus on the five to ten
13	A Correct.	13	photographs. Okay?
14	MS. O'DELL:	14	A Okay.
15	Object to the form.	15	Q Okay? Right? The five to ten
16	MR. FERGUSON:	16	photographs you were provided of the Argonaut
17	Q And when were the Google Earth	17	mine
18	photographs taken? I mean, when	18	A Okay.
19	A They go back I think the most recent	19	Q from which you concluded that
20	one was a two I think there might have been a	20	selective mining procedures were not being
21	2018 photograph. And then they go back. It's an	21	applied properly.
22	irregular number of years that they that they	22	A Correct.
23	present you with. But I think that maybe	23	Q Okay?
24	They had some that were so far back	24	MS. O'DELL:
	•		
	Page 499		Page 501
1	that they were useless. The quality of the	1	Object to the form.
2	photograph was no good. And, so, with that	2	MR. FERGUSON:
3	thought in mind, I'm gonna say there were	3	Q And what was the time frame for those
4	probably three or four of Ludlow area that were	4	photographs?
5	useful.	5	A I've got them in my report.
6	And I can't tell you what the oldest	6	Q Okay.
7	one was, but it would it would be, say, 2003,	7	A I don't remember the exact dates. But
8	maybe. Maybe maybe one that was pre-2000.	8	they're each photograph I've I've tried to
9	Q But with regard to the photographs that	9	give a date on.
10	you looked at that were 2003 or post-2003, those	10	Q Okay. So how long had that mine been
11	were when that mine was no longer being used to	11	being mined for purposes of cosmetic talc before
12	source cosmetic talc; correct?	12	2003? Do you know?
13	MS. O'DELL:	13	A It's an old mine. It was originally an
14	Object to the form.	14	underground mine. And I think that probably as
15	A Yeah, that's right. And that's why I	15	long as the West Windsor mill had been in
16	said I'd be glad to, you know, discuss the ones	16	operation there had been some cosmetic talc
	in here, because they're pre-2003.	17	coming out of Argonaut.
Ι/	MR. FERGUSON:	18	Q So it's been mined for years and years
17 18		19	and years; correct?
18	() So so, essentially the Google Earth	1	A I think so.
18 19	Q So so, essentially, the Google Earth	2.0	1 1 HHIII 50.
18 19 20	photographs, which are perhaps all post-2003,	20	
18 19 20 21	photographs, which are perhaps all post-2003, don't tell us anything about about what was	21	Q Okay. And the five to ten photographs
18 19 20 21 22	photographs, which are perhaps all post-2003, don't tell us anything about about what was going on in the mine during the period of time	21 22	Q Okay. And the five to ten photographs that you looked at, how long does it take to take
18 19 20 21	photographs, which are perhaps all post-2003, don't tell us anything about about what was	21	Q Okay. And the five to ten photographs

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	Page 502		Page 504
1	Object to the form.	1	A Well, it might. But I'd say that the
2	A Yes. But	2	odds are that in that in the hour preceding
3	MR. FERGUSON:	3	when the aerial photograph was taken, there
4	Q Okay. So so those photographs were	4	wouldn't have been a shot, because these
5	showing you what the mine looked like during the	5	photographs were not taken by, you know, some
6	millisecond it took to take each of those	6	tourist flying over. These are aerial
7	photographs; correct?	7	photographs that were apparently taken by
8	MS. O'DELL:	8	Johnson & Johnson or probably Imerys personnel to
9	Object to the form.	9	document the condition of the mine at that point.
10	A Yeah. That's that's sort of a	10	It's very common to do this, because that's one
11	loaded question, because what you see in the	11	of the ways that you can can measure your
12	photographs is the the result of mining over a	12	stockpiles is is by overflights.
13	period of time. Sure.	13	Q Do you know who took them?
14	You've got a photograph. I mean,	14	A No, I don't know who took them. It may
15	everybody knows it doesn't take very long to take	15	have said somewhere in the document.
16	a photograph. But if you're taking a photograph	16	They came out of they came out of
17	of a mine that is that is full of shot rock	17	I think some of them actually came out of a
18	and waste rock and benches that are have been	18	Luzenac document.
19 20	covered with with material that I wouldn't	19	Q And you don't know, yourself, what
21	think should be there if you were selectively	20	occurred, whether there had been a blast in the
22	mining a higher-grade deposit, then the the little millisecond that it takes to take that	21	previous hour, two hours?
23	photograph is capturing a condition that probably	22	A No. What I was gonna say was if it was
24	represents a number of years.	23	gonna be a blast that day, I don't think I would
21	represents a number of years.	24	have been up in a plane over the quarry.
	Page 503		Page 505
1	Q But when you took the photo when you	1	Q Okay. And have you talked to whoever
2	looked at the photographs, they represented only	2	took the plane to take the pictures?
3	a very, very short span of time in a in a mine	3	MS. O'DELL:
4	that's been mined for years and years and years;	4	Ohio at to the forms
		1	Object to the form.
5	correct?	5	A I have no idea who took the pictures.
6	correct? MS. O'DELL:	5 6	A I have no idea who took the pictures. MR. FERGUSON:
6 7	correct? MS. O'DELL: Object to the form.	5 6 7	<ul><li>A I have no idea who took the pictures.</li><li>MR. FERGUSON:</li><li>Q That's all. Thank you, sir.</li></ul>
6 7 8	correct? MS. O'DELL: Object to the form. A That's what I'm saying is it may not	5 6 7 8	<ul> <li>A I have no idea who took the pictures.</li> <li>MR. FERGUSON:</li> <li>Q That's all. Thank you, sir.</li> <li>A Sure.</li> </ul>
6 7 8 9	correct?  MS. O'DELL:  Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a	5 6 7 8 9	<ul> <li>A I have no idea who took the pictures.</li> <li>MR. FERGUSON:</li> <li>Q That's all. Thank you, sir.</li> <li>A Sure.</li> <li>MS. O'DELL:</li> </ul>
6 7 8 9 10	correct?  MS. O'DELL:  Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a look at the photographs, it should be pretty	5 6 7 8 9	<ul> <li>A I have no idea who took the pictures.</li> <li>MR. FERGUSON:</li> <li>Q That's all. Thank you, sir.</li> <li>A Sure.</li> <li>MS. O'DELL: <ul> <li>I have nothing further, Doctor.</li> </ul> </li> </ul>
6 7 8 9 10 11	correct?  MS. O'DELL:  Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a look at the photographs, it should be pretty obvious to you that the mines are not they're	5 6 7 8 9 10 11	<ul> <li>A I have no idea who took the pictures.</li> <li>MR. FERGUSON:</li> <li>Q That's all. Thank you, sir.</li> <li>A Sure.</li> <li>MS. O'DELL:  I have nothing further, Doctor.</li> <li>MR. FROST:</li> </ul>
6 7 8 9 10 11 12	correct?  MS. O'DELL: Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a look at the photographs, it should be pretty obvious to you that the mines are not they're not I wouldn't call them clean. There's an	5 6 7 8 9 10 11 12	<ul> <li>A I have no idea who took the pictures.</li> <li>MR. FERGUSON:</li> <li>Q That's all. Thank you, sir.</li> <li>A Sure.</li> <li>MS. O'DELL:  I have nothing further, Doctor.</li> <li>MR. FROST:  I have a real quick follow-up on those</li> </ul>
6 7 8 9 10 11 12 13	correct?  MS. O'DELL:  Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a look at the photographs, it should be pretty obvious to you that the mines are not they're not I wouldn't call them clean. There's an awful lot of rock that is scattered about that	5 6 7 8 9 10 11 12 13	A I have no idea who took the pictures.  MR. FERGUSON: Q That's all. Thank you, sir. A Sure.  MS. O'DELL: I have nothing further, Doctor.  MR. FROST: I have a real quick follow-up on those questions.
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6 7 8 9 10 11 12 13 14 15 16	correct?  MS. O'DELL:  Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a look at the photographs, it should be pretty obvious to you that the mines are not they're not I wouldn't call them clean. There's an awful lot of rock that is scattered about that that you wouldn't see if you were selectively mining rock to make sure that you weren't getting bad material mixed in with good.  MR. FERGUSON:	5 6 7 8 9 10 11 12 13 14 15 16 17	A I have no idea who took the pictures.  MR. FERGUSON: Q That's all. Thank you, sir. A Sure.  MS. O'DELL: I have nothing further, Doctor.  MR. FROST: I have a real quick follow-up on those questions.  MS. O'DELL: I may have something further, but not after Mr. Ferguson.  EXAMINATION
6 7 8 9 10 11 12 13 14 15 16 17 18	correct?  MS. O'DELL:  Object to the form.  A That's what I'm saying is it may not represent a short span of time. If you take a look at the photographs, it should be pretty obvious to you that the mines are not they're not I wouldn't call them clean. There's an awful lot of rock that is scattered about that that you wouldn't see if you were selectively mining rock to make sure that you weren't getting bad material mixed in with good.  MR. FERGUSON:  Q And do you know what had been going on	5 6 7 8 9 10 11 12 13 14 15 16 17	A I have no idea who took the pictures.  MR. FERGUSON: Q That's all. Thank you, sir. A Sure. MS. O'DELL: I have nothing further, Doctor.  MR. FROST: I have a real quick follow-up on those questions. MS. O'DELL: I may have something further, but not after Mr. Ferguson. EXAMINATION BY MR. FROST:
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	Dama 500		Dana 500
	Page 506		Page 508
1	exhibit in the back.	1	CERTIFICATE
2	Q Okay. Let's turn to the exhibit in the	2	STATE OF ALABAMA)
3	back.	3	COUNTY OF MOBILE)
4	A Yeah.	4	I do houston and Code at the above and
5	Q Would you agree with me that only two	5	I do hereby certify that the above and
6	of these pictures actually appear to be aerial	7	foregoing transcript of proceedings in the matter aforementioned was taken down by me in machine
7	photos of the mine?	8	shorthand, and the questions and answers thereto
8	A Right. Sure.	9	were reduced to writing under my personal
9	Q Okay. The rest of the one, two, three,	10	supervision, and that the foregoing represents a
10	four, five	11	true and correct transcript of the proceedings
11	A They illustrate exactly what I was	12	given by said witness upon said hearing.
12	talking about.	13	I further certify that I am neither of
13	Q Well, again, my question is only two of	14	counsel nor of kin to the parties to the action,
14	the photographs are aerial; correct?	15	nor am I in anywise interested in the result of
15	A Sure.	16	said cause.
16	Q The other five appear to be taken from	17	Signed this 2nd day of February, 2019.
17	the ground?	18	2 2
18	MS. O'DELL:	19	
19	Just count them. Don't agree if you	20	
20	don't		LOIS ANNE ROBINSON, RDR
21	A No.	21	COURT REPORTER, NOTARY PUBLIC
22	MR. FROST:		STATE OF ALABAMA AT LARGE
23	Q Well, you can count them, but it's	22	ACCR# 352; EXPIRES 9/30/19
24	five.	23	
21	nvc.	24	
	Page 507		
_			
1	A But since you've pointed out that not	1	ERRATA PAGE
2	all of them were from the air, the last	2 3	I, ROBERT COOK, Ph.D., the witness
3	photograph was from the ground because the plane	3	herein, have read the transcript of my testimony,
4	was grounded because of snow.	4	and the same is true and correct, to the best of my
5	Q Sure. There we go.	-	knowledge, with the exceptions of the following
6	All right. That's all the questions I	5	changes noted below, if any:
7	have, sir.	6	Page/Line Word/Words to be changed Correct Word
8	MS. O'DELL:	7	
	T	1 .	
9	I have nothing further.	8	
9 10	I have nothing further. VIDEOGRAPHER:	9	
	_	9 10	
10	VIDEOGRAPHER:	9 10 11	
10 11	VIDEOGRAPHER: We're off the record. The time is	9 10 11 12	
10 11 12	VIDEOGRAPHER: We're off the record. The time is 7:20 p.m.	9 10 11 12 13	
10 11 12 13	VIDEOGRAPHER: We're off the record. The time is 7:20 p.m. (DEPOSITION EXHIBITS 34-1 TO 34-13,	9 10 11 12 13 14	
10 11 12 13 14	VIDEOGRAPHER: We're off the record. The time is 7:20 p.m. (DEPOSITION EXHIBITS 34-1 TO 34-13, 35, 36, 37, 38, AND 39 WERE MARKED	9 10 11 12 13	
10 11 12 13 14 15	VIDEOGRAPHER: We're off the record. The time is 7:20 p.m. (DEPOSITION EXHIBITS 34-1 TO 34-13, 35, 36, 37, 38, AND 39 WERE MARKED FOR IDENTIFICATION.)	9 10 11 12 13 14 15	
10 11 12 13 14 15 16	VIDEOGRAPHER: We're off the record. The time is 7:20 p.m. (DEPOSITION EXHIBITS 34-1 TO 34-13, 35, 36, 37, 38, AND 39 WERE MARKED FOR IDENTIFICATION.)	9 10 11 12 13 14 15 16	
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	Page	510
1	DECLARATION OF WITNESS	
2		
3	I, the undersigned, declare under penalty	
4	of perjury that I have read the foregoing	
5	transcript, and I have made any corrections,	
6	additions, or deletions that I was desirous of	
7	making; that the foregoing is a true and correct	
8	transcript of my testimony contained herein.	
9	EXECUTED this day of,	,
10	2019, at,	
	(City) (State)	
11	(213)	
12		
13		
14		
15		
15		
1.0	DODEDE COOK DI D	
16	ROBERT COOK, Ph.D.	
17		
18		
19		
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21		
22		
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24		

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